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## OCCUPATIONAL SURVEY REPORT. ELECTRONIC PRINCIPLES Apr-Jun 77.



AFSC 32852 .

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OCCUPATIONAL SURVEY BRANCH
USAF OCCUPATIONAL MEASUREMENT CENTER
LACKLAND AFB TEXAS 78236

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## PREFACE

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of the Airborne Early Warning Radar Specialist, AFSC 32852.

The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey data were analyzed by Major William A. Tamashunas. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Colonel, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Survey Branch USAF Occupational Measurement Center

## ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT AIRBORNE EARLY WARNING RADAR SPECIALIST AFSC 32852

### INTRODUCTION

This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned as Airborne Early Warning Radar Specialist (AFSC 32852). The data for this report were collected during the period April through June 1977.

This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by DAFSC 5-skill level personnel both CONUS and overseas and assigned to selected major commands.

DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks refining the EPI. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas.

### **ADMINISTRATION**

The Electronic Principles Inventory was administered by mail to AFSC 32852 airmen worldwide. Responses from 14 individuals represented 31 percent of the total of all AFSC 32852 personnel. Table 2 shows the percentage distribution by major command of the survey incumbents.

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TABLE 1
EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
1	MATHEMATICS	A1	. 2
2	DIRECT CURRENT AND VOLTAGE	A15	2
2 3		A24	2
4	MILI TIMETER LISES	B52	3
5	RESISTANCE MULTIMETER USES ALTERNATING CURRENT	B61	Δ
6	INDUCTORS AND INDUCTIVE	B67	7
U	REACTANCE	507	4
7	CAPACITORS AND CAPACITIVE	C92	7
	REACTANCE	032	5
8	TRANSFORMERS	C128	6
9	MAGNETISM	C171	7
10	RCL CIRCUITS	D185	8
11	SERIES AND PARALLEL RESONANCE		0
11	(TIME CONSTANTS)	0229	10
10	FILTERS	D239	10
12			11
13	COUPLING	E261	11
14	SOLDERING	E273	
15	RELAYS	E295	12
16	RELAYS MICROPHONES SPEAKERS	F314	12
17	SI EMILENS	F327	13
18	OSCILLOSCOPES	F342	13
19		G354	13
20	TRANSISTORS	G404	15
21	TRANSISTOR AMPLIFIERS	G428	16
22	SOLID-STATE SPECIAL PURPOSE		
	DEVICES	H477	19
23	POWER SUPPLIES	H483	19
24	OSCILLATORS	H512	19
25	MULTIVIBRATORS	1539	20
26	LIMITERS AND CLAMPERS ELECTRON TUBES	I555	21
27	ELECTRON TUBES	1565	21
28	ELECTRON TUBE AMPLIFIERS AND CIRCUITS	J609	22
29	SPECIAL PURPOSE ELECTRON	J616	
	TUBES		23
30	HETERODYNING, MODULATION, AND	J632	
	DEMODULATION		23
31	AM SYSTEMS	K638	23
32	FM SYSTEMS	K666	24

## TABLE 1 (CONTINUED)

## EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
33	NUMBERING SYSTEMS	K685	25
34	LOGIC FUNCTIONS	L695	25
35	BOOLEAN EQUATIONS	L708	26
36	COUNTERS	L733	27
37	TIMING CIRCUITS	M757	27
38	USE OF SIGNAL GENERATORS	M769	28
39	MOTORS AND GENERATORS	M779	28
40	METER MOVEMENTS	N808	29
41	SATURABLE REACTORS AND	N818	
	MAGNETIC AMPLIFIERS		29
42	WAVESHAPING CIRCUITS	N834	30
43	SINGLE SIDEBAND SYSTEMS	0845	30
44	PULSE MODULATION SYSTEMS	0875	31
45	ANTENNAS	0914	32
46	TRANSMISSION LINES	P953	34
47	WAVEGUIDES AND CAVITY RESONATORS	P984	35
48	MICROWAVE AMPLIFIERS AND	01024	35
48	OSCILLATORS	P1034	37
49	REGISTERS	01110	39
50		Q1110	
51	STORAGE DEVICES DIGITAL TO ANALOG CONVERTERS	Q1117	40 40
52		Q1126	41
53	PHANTASTRONS SCHMITT TRIGGERS CABLE FABRICATION	Q1140	41
	SCHMIII IKIGGEKS	R1141	
54		R1144	41
55	INPUT/OUTPUT DEVICES	S1146	41
56	PHOTO SENSITIVE DEVICES	\$1149	41
57	SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS)	S1150	41
58	INFRARED	T1159	41
59	LASERS	T1186	42
60	DISPLAY TUBES	T1220	43
61	PROGRAMMING	U1234	43
62	DB AND POWER RATIOS	U1255	44

TABLE 2

COMMAND REPRESENTATION OF SURVEY SAMPLE

	32	2852
COMMAND	PERCENT ASSIGNED	PERCENT OF SAMPLE
ADC	58	93
OTHER	42	
TOTAL	100	100

Total Assigned - 45 Total Sampled - 14 Percent Sampled - 31%

## PRESENTATION OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 1 of the GPSUM lists the three selected groups identified for this report. Pages 2-44 show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 1. For example, the Transformers area results are given on page 6 of the GPSUM. The percentage of survey respondents indicating use of specific electronic principles ranged from high in areas such as Alternating Current (p.4) and Soldering (pp. 11-12) to low in areas such as Speakers (p. 13) and Infrared (pp. 41-42). Additional AFSC 328X2 data can be obtained upon request to the Chief, Occupational Survey Branch (OMY).

APPENDIX

PCT MARS RESPONDING .YES. BY SELECTED GRPS

TABULATION OF ELECTRONIC PRINCIPLES UTILIZATION DATA FOR SELECTED GROUPS IN THE 32852 CAREEN FIELD.

HE PORTS ON THE FOLLOWING GROUPS WERE NEGUESTED

GROUP IDENTITY . SPCISI ALL AIRNEN DAFSC 32852 STATIONED IN CONUS CONGROUP IDENTITY . SPCISZ ALL AIRNEN DAFSC 32852 STATIONED IN CONUS CONGROUP IDENTITY . SPCISY ALL AIRNEN DAFSC 32852 ASSIGNED TO ADC

CONTAINING 14 MEMBERS.
CONTAINING 14 MEMBERS.
CONTAINING 13 MEMBERS.

GPSUM8 PAGE

PCT NEWS RESPONDING TYEST BY SELECTED GRAS

GPSUNB PAGE 2

TASK GROUP SURMARY PENCENT MENGERS PERFORMING

	MATHEMATICS					DIRECT CURRENT AND VOLTAGE		RESISTANCE	
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52	2	e co	5 - 400	0 * 6 7	7 0 6 7	200	2.4	• 0 0 0 0 0 0	2 2 2 2
1.5	6	*	2 ~ 0 5 6 7 E	0 2 2 7	r 0 &	3782	3.2.	• 000000	2 2 2 2
DY=YSK	A 1 A1-01 IN TOUR PRESENT JOB, DO YOU USE INSTRUMENTS, SUCH AS METERS OR OSCILLOSCOPES, IN WHICH IT IS NECESSARY TO AMPLIFY OR ATTENUATE VOLTAGE, RESISTANCE, ETC., BY POWERS OF 10.	A 2 1-02 DO YOU USE PUBLICATIONS, SUCH AS A TECHNICAL OFDERS OR MAINTENANCE MANUALS, IN WHICH IT IS NECESSARY FOR YOU TO HULTIPLY OR DIVIDE BY A POWER OF 10 BEFORE YOU CAN APPLY THE INFORMATION PROM THE PUBLICATION IN A USEFUL WAY	A 11-03 DO TOU REARRANGE AND SOLVE FORMULAS OR EQUATIONS.  A 1 11-04 DO TOU CALCULATE THE SQUARE ROOT OF A QUANTITY.  A 21-05 DO TOU CONVERT NUMBERS TO LOANTITIES.  A 41-05 DO TOU CONVERT NUMBERS TO LOGARITHES.	CALCULATIONS. A1-09-00-100-100-100-100-100-100-100-100-	SINE, COSINE, OR TA 12 A1-12 OO YOU DETERNI 13 A1-13 DO YOU SOLVE O 14 A1-14 DO YOU SOLVE O	700 USE THE 700 USE THE 700 USE THE 700 USE THE	A2-09 00 700 05E THE A2-09 00 700 05E THE A2-08 00 700 05E THE A2-09 00 700 05E THE	3-01 Do 700 MORK WI 3-02 Do 700 INSPECT 3-03 Do 700 CLEAN R 3-04 Do 700 ADUST 3-05 DO 700 ADUST 3-05 DO 700 RECK O	2 3 1 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3

## TASK GROUP SUNTARY PERCENT NEWBERS PERFORNING

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SPC 151	00	•	•	100	S	•	*	2	•	•	1	*	*		, ,	S	•	•	•		100	00	2 7	7	100	100		100
DY-75K	34 13-11 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE	35 A3-12 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE	34 A3-13 DO YOU MAKE DECISIONS IN WHICH YOU MUST DETERMINE HOW TWO OR MORE BATTERIES MUST BE CONNECTED TOGETHER TO	37 4	REPRESENT BATTERIES, FUSES, CONDUCTORS, LAMPS, OR SWITCHES 38 A3-15 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES	SP ASSISTIVE CINCUITS. 39 ASSISTIVE DO YOU CALCULATE TOTAL CURRENT FOR SERIES RESISTIVE	40 43-17 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES	MESISTIVE CIRCUITS.	MESISTIVE CINCUITS. 42 A3-19 DO YOU CALCULATE TOTAL RESISTANCE FON SERIES PARALLEL ASSISTANT CIRCUITS.	43 13-20 DO YOU CALCULATE TOTAL CURRENT FOR SENIES PARALLEL	HE A3-21 DO TOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES	#5 #3-22 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR	SERIES PARALLEL RESISTIVE CIRCUITS.			"8 A3-25 DO TOU CALCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE	49 A3-26 DO TOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR	PARALLEL RESISTIVE CIRCUITS.  50 43-27 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR	PARALLEL RESISTIVE CIRCUITS.  51 a3-28 DO YOU CALCULATE POWER DISSIPATION FOR PARALLEL		52 al-o1 bo 10u	ST BIECK DO YOU MENT ON THE FINE	00 40-18	81-05 DO YOU	DO YOU MEASURE	Se Bi-07 Do YOU USE MULTIMETERS.	COULONB.	. 60 BI-OF DO TOU READ SCHEMATICS.
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TASK GROCE SCHARF

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# PCT MBRS RESPONDING .YES' BY SELECTED GRPS

## TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

		CAN SOCITORONS	CAPACITIVE REACTANCE																													
154	9.8	• 5	11	100	:	000	2 .	•	4.5		100			9 7	69	42	001	001	91	•	23	<b>30</b>	1.5	38	38	2	;	• 5			*	23
5 PC		3	19	100	11	000	2	1	5		001	::		20	11	2	001	00		:	~	*	7 1	*	?	:		•	5.7		20	5.0
151		63	14	100	7.	000		1	3		100			20	1.1	2	001	001			12		71	7	?	:		:	57	:	20	23
0Y-TSK	42 CI-DI DO TOU MORK WITH CAPACITORS OR CIRCUITS CONTAINING	43 CI-D2 DO YOU INSPECT CAPACITORS.	94 CI-03 DO YOU CLEAN CAPACITORS.	00	C1-05 00 100	AN CITOR OF YOUR DISCHARGE CAPACITORS.	00 00 10	C1-09 DO YOU USE OR	A DIELECTRIC. 101 CI-10 DG YOU USE OR REFER TO FARADS, MICROFARADS, OR	PICOFARADS.	USE OR REFER TO	CI-13 DO TOU USE OR REFER	CAPACITORS	C1-14 DO TOU USE	CI-15 DO 70U	C1-10 00 100 WORK	00 100	TO CITE DO TOU BOXX WITH CAPACITORS IN CIRCUITS BITH BOTH OF	HOTHER GRANDER FORCE AT SECTION OF THE SECTION OF T		111 CI-20 DO TOU CALCULATE CAPACITANCE FOR PARTICULAR	112 CI-21 DO TOU USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS DIRECTLY PROPORTIONAL TO THE	113 C1-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT	114 CI-23 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	IN SERIES 115 C1-24 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS	IN PARALLEL IN PAR	IN SERIES-PARALLEL CIRCUITS	117 CI-26 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT	DOES NOT FLOW TAYOUGH CAPACITONS, IT ONLY APPEARS TO DO SO		IN CITES OF THE TEAT TO THE GENERAL RULE THAT CAPACITIVE RECTANCE IS INVERSELY PROPORTIONAL TO	FREQUENCY 120 CI-27 DO YOU CALCULATE CAPACITIVE HEACTAMCE

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	×27-70	121 (1-30 90	CI-31 DO YOU WORK *ITH	123	C1-33 00 YOU WORK WITH	1 x x x x x x x x x x x x x x x x x x x	2000 000 000 000 000 000 000 000 000 00	C1-35 00 100 #0RK	C 127 C1-16 DO YOU WORK WITH DON'T REMEMBER WAICH TYPE OF	CAPACITORS	001 00 10-23	129 CZ-02 DO YOU INSPECT TRANSFORMERS	C 130 C2-03 DD YOU CLEAN TRANSFORMERS	131 C2-04 DO YOU	132 C2-05 DO YOU	133 CZ-04 DO YOU	C2-07 00 YOU	THE PRIMARY MINDING	C 135 C2-08 DO YOU MAKE A DISTINCTION BETWEEN MUTUAL INDUCTION	60-23	C 137 CZ-10 DO YOU REFER TO OR USE THE COEFFICIENT OF COUPLING			C 134 CA-12 DO TOU NEFE TO REFLECTED INTEDANCE WHEN HORKING WITH	SOURCE STOCKES TO SECURE SECURIOR SECUR	CALL CONTROL NORW WITH AUTOTRANSPORMERS	142 C2-15 DO YOU WORK WITH	143 C2-16 DO YOU WORK WITH	144 C2-17 DO 700 40RK #17H RADIO	C2-18 DO YOU WORK WITH DON'T	C 146 C2-19 DO YOU CHECK TRANSFORMERS FOR OPEN WINDINGS BY	MEASURING RESISTANCE	C 147 CZ-20 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY	AMERICA SELECTION ACTUAL PROPERTY OF THE SELECTION OF THE		C 149 C2-22 DO YOU MEASURE RESISTANCE OF TRANSFORMER WINDINGS TO		C 150 C2-23 DO YOU MEASURE DUTPUT VOLTAGE OF TRANSFORMERS TO	ILLIC ED LOLLING & ORE MICEDIAN & MICHIGAN BURNES	COMM TOWNS RATIO TO A.S.IC TRANSFORMER SCHEMITT STREETS	

## TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

SPC	151 152 154	80 80 HS	86 86 85	43 43 42	79 79 77	58 98 98	93 93 92	£ + + + 9	* 05 05	43 43 38	79 79 77	21 21 23	21 21 23	69 69	57 57 62		0 7 TT TT		\$1 ,	86 85	3.7	21 21 23	21 21 23		9. 05 05	0 0 0
		C 152 C2-25 DO YOU REFER TO MULTIPLE SECOPERT-WINDINGS SCHEMATIC	YOU REFER TO MULTIPLE TAP SCHEMATIC STHBOLS FOR MERS.	REPER TO CENTER TAP SCHEMATIC STHBOLS FOR	REFER TO AIR CORE SCHEMATIC SYMBOLS FOR	REFER TO IRON CORE SCHEMATIC STABOLS FOR	PEFER TO COMBINATIONS OF THE ABOVE SCHEMATIC	TOU DETERMINE PHASE RELATIONSHIPS BETWEEN	OR REFER TO THE TYPE OF CORE IN	C 140 C2-33 DO YOU REFER TO OR USE THE GENERAL RULE THAT THE		PRESS CALCULATE VOLTAGE RATIOS FOR THANSFORMERS	ITE CURRENT RATIOS FOR TRANSFORMERS	INVOLVE ANY TASKS DEALING WITH THREE	C. 165 C2-38 DO YOU INSPECT THREE PHASE THANSFORMERS	166 C2-39 DU TOU CLEAN OR LUBRICATE THREE PHASE TRANSFORMERS	C 167 C2-40 DD 700 ADJUST THREE PLASE TRANSFORMERS	CZ-42 DO YOU REMOVE OR REPLACE COMPLETE THREE PHASE	EPLACE THREE PHASE TRANSFORMER	C 171 C3-01 DO YOU USE OR REFER TO PERMANENT MAGNETS	C3-03 DO YOU USE OR REFER TO RETENTIVITY OF MACHETIC	C 174 C3-04 DD TOU USE OR REPER TO RELUCTANCE OF MAGMETIC	OU USE OR REFER TO PERMEABILITY OF MAGNETIC	C1-06 DO YOU USE OR REFER TO RESIDUAL MAGNETISM	C 177 C3-07 DO YOU USE OR REFER TO MAGNETIC LINES OF FORCE OR	C 178 C3-D8 D0 YOU USE OR REFER TO WEBER'S THEORY OF MACHETISM

TANK GROUP SUNKRY
PERCENT KENDERN PERFORMING

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	151	0	3.6	7			77		7.	1	•	-	1	~	7		-	57		:	20	5	•	-	5	:	20		27	-	23	7	7
		DOMAIN THEORY OF MAGNETISM	MAGNETIC INDUCTIO	FLUX DENT. TY	OR REFER TO THE GENERAL RULE THAT FUR	MAGNETIC POLES, LIKE POLES REPEL AND UNLIKE POLES ATTRACT	ND THUMB RULE TO FIND THE	S ABOUT STRAIGHT WIRES	C3-14 DO TOU USE THE LEFT HAND THUMB RULE TO FIND THE NORTH	COLL STREET	יי ארב רוארסוים וא יספא	VECTORS MHEN MORKING WITH RCL	PYTHAGOREAN THEOREM WHEN	SINE THEN LORKING WITH RCL	DI-OS DO YOU USE OR REFER TO COSINE WHEN MORKING MITH ACL	CIRCUITS	The secretary sales and secretary sales are sales and secretary sales and secretary sales and secretary sa	DI-OT DO TOU USE ON REFER TO WATTS WHEN WORKING WITH RCL	SALINGON MICH OF GRANDS SHOP OF GRANDS BOT TO HOW OF BOTH OF		HAXINUM POWER (PH) WHEN	THE ACL CHACOLTS		APPARENT POSER (PA) MIEN	DITIE DO YOU USE OF REFER TO POWER FACTOR (PF) WHEN WORKING	DO YOU USE OF REFER TO RESONANT CIRCUITS WHEN	BANDWIDTH MHEN MORKING WITH		DISTRIBUTED ON THE PER TO SELECTIVITY WHEN BORKING WITH	RESONANT FREQUENCY WHEN	MALE POWER POINTS WHEN	DISTRICT THE WILL OF OR REFER TO BANDPASS REGION WHEN WORKING	CITY DELEGE NAME & LOCATO
	04-15×	179 C3-09 DG 70U USE OF	SE	181 (3-11 00 100 05	C3-12 00 YOU USE		C 183 C3-13 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE		C 184 C3-14 DO 100 USE THE LEFT HA	POLE OF A CURRENT CARRYING COLL		D 186 D1-UZ DO YOU USE OF REFER TO VECTORS WHEN HORKING MITH RCL	CIRCUITS DIEST DI-DS DO YOU USE OR REFER TO PYTHAGONEAN THEOREM WHEN	C 188 DI-O4 DO YOU USE OR REFER TO SINE WHEN MORKING WITH RCL	D 169 DI-05 DO TOU USE ON REFER TO	CIRCUITS		D 141 01-07 DO YOU USE ON REFER TO	CIRCUITS		D 193 31-09 DO TOU USE OR REFER TO MAXIMUM POWER (PM) WHEN	MURKING WITH ACL CIRCUITS	WORK INC	U 195 DI-11 DO YOU USE OR REFER TO APPARENT POWER (PA) WHEN	0 194 01-12 DO YOU USE OF REFER TO	SORFING WITH MC CINCLITS	0 198 31-14 DO 700 USE OR REFER TO	RCL CIRCUITS	D 194 DI 15 DO 100 OSE OF REFER TO	D 200 01-16 DO YOU USE OR REFER TO RESONANT FREQUENCY WHEN	0 201 01-17 00 700 USE OR REFER TO	D 202 01-18 DO YOU USE OR REFER TO	D 203 SI-19 DO TOU OSE ON REFER TO CIRCUIT & WHEN WORKING WITH RCL CIRCUITS

# PCT MBRS RESPONDING . YES" BY SELECTED SAPS

TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

			SPC	SPC	345	
		DY-TSK	151	152	154	
0	204	DI-20 DO YOU USE OF REFER TO TANK CIRCUITS WHEN WORKING	5.7	57	* 5	
٥	502	01-2-	1	•	•	
0	500	0	12	2	23	
0	102	0	-	-	1.5	
٥	508	0	*	<u>*</u>	15	
0	\$0.	۵	-	•	15	
0	210	0	1	•		
٥	112	۵	=	•	1.5	
٥	212	0	1	1	•	
٥	213	0	-	-	1.5	
0	214	0	1	^	•	
٥	215	0	1		10	
0	216	DI-32 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL	7	1	•	
٥	217	0	1	^		
3	218	DI-14 DO TOU CHECK CAPACITORS USING OHMMETERS	,	5.0	62	
0		DI-35 DO YOU CHECK CAPACITORS USING	5.0	20	9 #	
0	220	DIESE DO TOU CHECK INDUCTORS USING ORNAFIERS	20	200	9 0	
2 2		DO YOU USE OF REFER TO THE GENERAL RUL	2 -	-	o 10	
D	223	0	-	-	5	
0	124	DI-40 DO YOU USE ON REFER	3.	36	3.0	
•	522	0	62	53	ī	
٥	226	RULE	*	*	7	
3	227	0	2	~	•	
٥	228	DESCRIPTION ASSETS OF TRANSPORTING OF THE SESSISTANCE OF THE CONTRACT OF PRESISTANCE OF THE CONTRACT OF PRESISTANCE OF THE CONTRACT OF THE SE	7	7	5	
		ANGLES FOR RCL CIRCUITS				

PERCENT MENDERS PERFORMING

		SERIES AND	PARALLEL RESONANCE	( FIME CONSTANTS)																FILTERS	1771743																		
5 P C	9		9 8	95		-		<b>10</b> 1	:		5		a			23		AL	0	9.2	*5	6.2	6.2	2.4	8	ž	,			*	31	•	38	7 .	, ,	•	;	;	
SPC 152	90		3 0	36	•	,			-		<u>+</u>		1			71		78	3	8	21	•	•	5.1		21	*	:	7	9.0	2.0	0.5	-	::	9	,	20	9	
5.0	0.5	9	36	*	;	5					<u>•</u>		•			77		84	;	:	23	-	•	51	:	27	**	3	:	9	5.0	9	7	::	9	,	9.0	9	
07-75K		TO SERIES OF PARALLEL	D 230 DZ-DZ DO 100 MOHK WITH, USE, OR REFER TO 178 CONSTANTS	03-04 DO TOU WORK WITH, USE,	INTERVALS	CAPACITOR IS FULLY CHARGED (ON DISCHARGED) AFTER FIVE (S)	TIME CONSTANTS	G 234 D2-04 DO YOU USE OR REPER TO UNIVERSAL TIME CONSTANT CHARTS	CIRCUIT CURRENT OR COMPONENT VOLTAGES	R CIRCUITS	OR FORMULAS TO DETERMINE THE	TIME ARBUTARD FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES TO	217 02-00 On You Use Fourtre	COMPONENT VOLTAGES TO REACH SPECIFIC VALUES IN SPECIFIC	TIMES	w	FIRE CATCHES REPORTED ITS MINISTER (OR SERO) AFTER		PRESENT JOB	240 03-02 DO TOU INSPECT FIL	33-03 DO 700 CLEAN FILTE	242 03-04 00 YOU	243 33-05 DO YOU	244 03-04 00 TOU TROUBLESHO	245 03-07 00 700 REHOVE	246 D3-08 D0 100 MEHOVE ON	SASTILE AND HOLD HOLD NOW OF SOLD THE	248 .3-10 50 YOU WORK WITH	249 03-11 DO YOU WORK WITH	250 U3-12 DO YOU HORK MITH 8	251 03-13 DON'T REMEMBER WH	252 03-14 00 700	253 03-15 00 700 WORK WITH	C 254 03-16 DO YOU HORK WITH PISECTION FILTER CONFIGURATION	256 C3-16 DO THE FITERS YOU WORK MITH USE	CIRCUITS	D 257 03-19 DG THE FILTERS YOU WORK MITH USE SERIES-PARALLEL	D 258 03-20 DO THE FILTERS TOU WORK MITH USE SERIES RESONANT	CIRCUITS

## TASK GROUP SUNMARY PERCENT MEMBERS PERFORMING

CIRCUIT   SPC	152 154	14 15		71 60	7.	COUPLING	71 69	71 69			71 69	71 69	9 .			57 54	100 100		001 00	-		-	-			-			-	93 92	79 77			9, 6,
THE REMEMBER WHICH TYPE OF BASIC CIRCUIT  TOU USE EQUATIONS OR FORMULAS TO DETERHINE  ACCOUNTING ON FORMULAS TO DETERHINE  TOU DENTITY ON SCHEMATIC DIAGRAMS AND RELATE  TOU IDENTITY THE COMPONENTS ASSOCIATED WITH RC  TOU IDENTITY THE COMPONENTS ASSOCIATED WITH  E COUPLING  TOU IDENTITY THE COMPONENTS ASSOCIATED WITH  TOU IN OUR WITH CAPACITIVE TOURLES COUNTED  TOU WORK WITH CAPACITIVE TO USE  TOU CLEAN BELEVE TO SOCIATED THE TOUR  TOU CLEAN BELEVE TO SOCIATED WITH S  TOU IN ONE TIND ON THE S  TOU IN ONE TIND ON THE S  TOU IN ONE TIND ON THE S  TOU IN ONE THE WIRES ON THE S  TOU IN ONE TIND ON THE S  TOU CLEAN SOCIATED ON THE S  TOU CON THE SOCIATE ON THE S  TOU CONNECTIONS ON THE S  TOU CONDECTIONS ON THE S  TOU CONDENT THE S  TOU CONDENT THE S  TOU CONDENT THE	SPC 5																			-		-	_		_	-			-					
00 00 00 00 00 00 00 00 00 00 00 00 00	A21-15K	250 03-22	ANCE ON INDUCTANCE VALUES REQUIRED FOR SPECIFIC	EI-DI DO YOU WORK HITH COUPLING DEVICES IN YOUR PRESENT	THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED	COUPLING	ZAN EL-ON DO TOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATED THE ACTUAL CIRCUITS THE CORPONENTS ASSOCIATED MITH	26" E1-04 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE	THE COMPONENTS ASSOCIATED	345	500	267	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200 000 0000000000000000000000000000000			۳		200 00 00 00 00 00 00 00 00 00 00 00 00	62-05 DO YOU	£2-00 00 100	E2-07 00 700	E2-08 DO TOU CUT	12-04 DO 100 FILE	00 00 01-23	EZ-11 DO TOU CLEAN SOLDERING IRON TIPS	EZ-12 DO TOU CLEAM ELECTRICAL SURFACES	£2-13 00 100	00 400	E2-15 DO TOU DESOLDER CONNECTIONS BY WIC	EZ-16 DO TOU DESCLOER CONNECTIONS USING	TOU CHE COMPONENT LEADER OF THE UNITED	The second secon	ZYU EZ-18 DO TUU CHUSH COMPONENTS FOR MEHOVAL
		00											<b>.</b>					w					•	-	<b></b>	w :	<b>u</b>	4	w		<b>w</b>			

TASK GROUP SUMMANT
PERCENT MEMBERS PERFORMING

								RELAYS																			MICROPHONES									
5 P C	100	6 0		•	26	38	11	7.7	3 .	9.5	2.5	:	5 5		38	9.5		5	11	"		6.5	:	-	•	1.5	5	5 :	2		0 4	. 0	0	. ·	0	0
S & C	100	- #	;	1,		3.6	11		2 6	*	20	::		::	36	10	,		1.			1.0	:		-	<u>*</u>	<u>.</u>	* :	-	•	· •	. 0	0	_ 0	0	0
5 P.C.	001	- "	;		8.6	36	1.	::	*	20	20	::	; ;	; ;	*	10		•	1.	1.			:	-	2	*	*	* :	-	,		. 0	0	<u>.</u>	0	0
07=75K	1 6 7	E 242 E2-20 DO TOU MAKE PRINTED CINCUIT BOARD CONNECTIONS E 293 E2-21 DO YOU SOLDER PASSIVE COMPONENTS SUCH AS RESISTORS ON		E 244 E2-22 DO TOU SOLDER ACTIVE COMPONENTS SUCH AS SOLID-STATE DIODES OR TRANSISTORS ON PRINTED CIRCUIT BOARDS	E 295 E3-D1 DO YOU WORK WITH RELATS ON YOUR PRESENT JOB	£3-02	E3-03 DO TOU	298 ED-04 DO YOU INSPECT RELAYS	13-06 00	£3-07 00 10U	E3-08 DO YOU STRAIGHTEN RELAY	E3-09 DO YOU PERFORM TASKS ON RELAY	E 304 E1-10 DO TOU TENTORS TANKS ON RELAT CORES	E3-12 DO YOU PERFORM TASKS ON	E3-13 DO TOU	£3-14 00	(SPST),	E 104 E3-15 DO TOU USE OF REFER TO SINGLE POLE, SINGLE THROW	E 310 E3-16 DO YOU USE OR REFER TO SINGLE POLE, DOUBLE THROW	(SPDT) SCHENATIC SYMBOLS FOR RELAYS	(DPDT) SCHEMATIC SYNBOLS FOR RELAYS	E 312 E3-18 DO YOU USE OR REFER TO OTHER RELAY SYMBOLS SCHEMATIC	STABOLS FOR RELATS  1313 E3-19 DO YOU CHECK ELECTRICAL CONTINUITY OF COILS BY	MEASURING RESISTANCE	THE THE PROPERTY COME TO THE PARTY OF THE PA	F 315 F1-02 DO TOU INSPECT MICROPHONES	11-03		CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO CONNECTIONS	•	THE STATE OF THE TRANSPORT OF THE TAXABLE TAXABABLE TAXABLE TAXABABLE TAXABLE TAXABLE TAXABLE TAXABLE TAXABLE	F1-08 00 YOU	FI-OF DO YOU PERFORM TASKS	T 323 FILE DO TOU PERSONN TASKS ON CAPACITOR MICROPHONES	FI-12 DO TOU PERFORM TASKS	TOU PERFORM TASKS

## TASK GROUP SUNHARY PERCENT NEMBERS PERFORMING

			SPEAKERS																		OSCILLOSCOPES																CENTCONDICTOR	DIONES	מיחרה						
5 P C	•	00	•					9	•	0	0	0	0	0	0	0	0	100	100		2	100		100	26	31	26		6.0		5 8	8 2		7 5	3	9.	5.9	11	•	,	•				
5 PC	7	*	*	•	-			0	-	0	0	0	0	0	0	0	0	100	100	201	0	100		100	63	36	6.5		71		9 9			2	•	9	9 8	19	1		1		•		
15.1	-	*	*	*	*			0	-	0	0	0	0	0	0	0	0	100	100	-	2	100		100	43	36	63		1.		9.0	*	;	7	3	98	8	19	1		1			;	
DY-TSK	F 327 F2-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING		F2-03 DO YOU CLEAN SPEAKERS	330 72-04 00		CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT	AKERS	F2-04 DO TOU TROUBLESHOOT DOWN	F2-07 DO YOU REMOVE OR REPLACE	F2-08 DO YOU REHOVE OR REPLACE	DO TOU PERFORM ANY TASKS ON SPEAKER	YOU PERFORM ANY TASKS ON SPEAKER	PERFORM ANY TASKS ON SPEAKER	F2-12 DO YOU PERFORM ANY TASKS ON SPEAKER	I DO YOU PERFORM ANY TASKS ON SPEAKER	ANY TASKS	F2-15 DO TOU PERFORM ANY TASKS ON SPEAKER	F3-01 DO YOU USE OSCILLOSCOPES IN	O YOU USE OSCILLOSCOPES	CHECKS	THE THE THE TOTAL OF THE CONTINUES TO THE CONTINUES OF	STATE TO THE DO YOU USE OSCILLOSCOPES TO TROUBLESHOOT ELECTRONIC	CIRCUITS	F 346 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY	OSCILLOSCOPES TO MEASURE	F3-07 00 700 USE OSCILLOSCOPES TO	OSCILLOSCOPES TO OBSERVE	ATOR PROBES	SIG	ENTS USING DELAY TIME	13-10 00 400 USE 05CILLOSCO	TOU USE OSCILLOSCOPES	SIGNALS AFIER PINST ADDODIEN	TASK TASK DO TOU USE USCILLED TO RESURE OF VOLTAGE HEADY	807	2 00	354 61-03 00 100	357 61-04 00 700	358 61-05 00 YOU	DIODES	6 359 61-04 DO TOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES,	TOGETHER	TO COMPUTE FORWARD OR REVERSE LIAS RESISTANCE	STORE STORES	, A. C.

THERE ELECTRON USE OR REFER TO THE GENERAL RULE THAT THERE RAILER CAN AFFER TO THE GENERAL RULE THAT THERE RAILER CAN AFFER TO THE GENERAL RULE THAT THERE PRISTING GI-10 DO TOU IDENTIFY SEMICONDOCTON DIOSE CONTO THERE PRISTING GI-11 DO TOU USE OR REER TO CENTRIPUEAL FORCE OF AN ELECTRON 10 ONS IT AROUND A NUCLEUS GI-11 DO TOU USE OR REER TO CENTRIPUEAL FORCE OF AN ELECTRON 10 ONS IT AROUND A NUCLEUS GI-12 DO TOU USE OR REER TO CENTRIPUEAL FORCE OF AN ELECTRON 10 ONS IT AROUND A NUCLEUS GI-13 DO TOU USE OR REFER TO CENTRIPUEAL FORCE OF AN ELECTRON 10 ONS IT AROUND A NUCLEUS GI-14 DO TOU USE OR REFER TO CENTRIPUEAL FORCE OF AN ELECTRON 10 ONS IT AROUND A NUCLEUS GI-15 DO TOU USE OR REFER TO DIODE MUMBERING SYSTEM, SUC GI-16 DO TOU USE OR REFER TO POTENTIAL ENERGY OF AN ELECTRO MOTING IN ORS IT AS IN SASI GI-17 DO TOU USE OR REFER TO POTENTIAL ENERGY OF AN ELECTRO MOTING IN ORS IT AS IN SASI GI-18 DO TOU USE OR REFER TO POTENTIAL ENERGY CY OF AN ELECTRON WOU'NE OR REFER TO POTENTIAL ENERGY OF AN ELECTRON WOU'NE LICTROW GI-18 DO TOU USE OR REFER TO POTENTIAL ENERGY CY OF AN ELECTRON WOU'NE LICTROW GI-18 DO TOU USE OR REFER TO POTENTIAL ENERGY LICTEL OF GI-19 DO TOU USE OR REFER TO POTENTIAL ENERGY LICTEL OF GI-19 DO TOU USE OR REFER TO POTENTIAL SAFE USED IN THE GI-20 DO TOU USE OR REFER TO STABOLS ON THE DIODE WHICH GI-20 DO TOU USE OR REFER TO STABOLS ON THE DIODE WHICH GI-20 DO TOU USE OR REFER TO STABOLS ON THE DIODE CAMBERT GI-20 DO TOU USE OR REFER TO STABOLS ON THE DIODE CAMBERT GI-20 DO TOU USE OR REFER TO STABOLS ON THE DIODE CAMBERT GI-20 DO TOU USE OR REFER TO STABOLS ON THE DIODE CAMBERT GI-20 DO TOU USE OR REFER TO STABOLS ON THE DIODE CAMBERT GI-20 DO TOU USE OR REFER TO STABOLS ON THE DIODE CAMBERT GI-20 DO TOU USE OR REFER TO STABOLS ON THE DIODE CAMBERT GI-20 DO TOU USE OR REFER TO STABOLS ON THE DIODE CAMBERT GI-20 DO TOU USE OR REFER TO STABOLS ON THE DIODE CAMBERT GIANDO STABOLS ON THE STATUM OF DIODE CAMBERT GIANDO STABOLS ON THE STADOLS ON THE CAMBER TO STABOLS ON THE CAMBER TO STABOLS ON THE	SPC	FG 76 16	79 79 77	19 79 77	14 14 15	43 43 46	41 41	-		79 79 65	c		0	+5 05 05	0 0		,	0 0 N	0	0 0 0		86 86	7 7 8	% 05 05 A	21 21 15		71 71 69		8 1 1 8
, , , , , , , , , , , , , , , , , , ,	•	UYATSK	DO YOU USE OR REFER TO THE GENERAL RULE	34.2 6.4.09 DO YOU IDENTIFY SENICONDUCTOR DIODES AS OFPOSED TO THER ELECTRONIC COMPONENTS, SUCH AS RESISTORS, BASED ON	THEIR PHYSICAL APPEARANCE 363 61-10 DO YOU DETERMINE THE GENERAL	OF DOPING ON CURRENT FLOW TOU USE OR REFER TO MEASUREMENTS	RESISTINCE	61-13 DO YOU USE ON REFER TO CENTRIFUEAL FURCE OF	ELECTRON IN ORBIT AROUND A NUCLEUS	ELECTRON IN ORBIT AROUND A NUCLEUS	AS IN 536	MOVING IN ORBIT	OR REFER TO POTENTIAL ENERGY OF	USE OR REFER TO	RESISTANCE 372 GI-19 DO YOU USE OR REFER TO NUMBER OF ELECTRONS IN A	PARTICULAR SHELL OR ORBIT	AN ORBITING ELECTRON	USE OR REFER TO FORBIDDEN ENERGY LEVELS OF	375 61-22 DO YOU USE ON REFER TO VALENCE ELECTRONS (THOSE IN		ELECTRONS IN ATOM)	2		1379 GI-24 DO YOU MEED TO KNOW THAT SEMICONDUCTORS MAYE MEGATI	SEC 61-27 DO YOU USE OF REFER TO PER LUNCTION DIODE	CLARACTERISTIC CURVES (PERHAPS YOU DO THIS TO IDENTIFY	381 61-28 DO YOU OFTERNINE WHETHER PN JUNCTION DIODES ARE	BIASED OF REVERSE BIASED WHEN YOU READ	342 61-29 DO YOU USE OR REFER TO VALENCE BAND IN SEMICONDUCTOR MATERIALS

TASK GROUP SUNNARY
PERCENT MEMBERS PERFORMING

SPC SPC	7 8	9 2		0	21 23	9 1	7 8	57 54	57 54	•	9	80	7 8	7 8	71 69			• • • • • • • • • • • • • • • • • • • •	29 23	21 15	51 15	16 •6	86 85	79 85	2007312NAGT 77 97			
5PC 151	1	1	,	0	7.1	1	1	5.7	57		1	7	1	1	7.1		. :	0	54	2.1	21	*	8	• •	10.	7.1	:	
×	TO FORBIDDEN BAND IN	TO CONDUCTION BAND IN	TO COVALENT BONDING IN	TO ELECTRON-HOLE PAIR CREATED IN	REFER TO ELECTRON FLOW OR HOLE FLOW IN	REFER TO DONOR IMPURITY IN	TO ACCEPTOR IMPURITY IN	TO P-1 YPE	2	STATE OF THE STATE	REFER TO MINORITY CARRIERS IN	REFER TO CUNCTION RECOMBINATION IN	TO DEFLETION REGION IN	SEMICONDUCTORS 61-43 DO YOU USE OR REFER TO RELATIONSHIP BETWEEN BARRIER	POTENTIAL TO THE 10:1 BACK TO FRONT	DES	Z	TO DIODE SUBSTITUTION	CINET DO YOU USE ON REFER TO MAXIMUM AVERAGE FORMARD	OR REFER TO PEAK RECURRENT FORMARD CURPENT	REFER TO MAXIMUM SURGE CURRENT DIODE	REFER TO PEAK REVERSE (INVERSE) VOLTAGE	WORK WITH TRANSISTORS IN YOUR PRESENT LOB.	TEANUSTORS TO THE TEANUSTORS	CHECK TRANSISTORS USING AN INSTRUMENT	TO EMITTER . BASE (EB) FORMARD	STANCE MEASUREMENTS OR REFER TO COLLECTOR - BASE (CB) FORWARD STANCE MEASUREMENTS	
07-15K	ASTANTANTANTANTANTANTANTANTANTANTANTANTANT	MATERIAL SO DOT DOT TO THE PARTY OF THE PART	A 385 61-32 OO YOU USE ON REFER	KIND OF THE PARTY	0	E 08	6 389 61-36 DO YOU USE OR REFER TO	6 340 61-37 DO YOU USE OR REFER	341 61-38 00 700 USE OR	SENICONDUCTORS	G 343 SIMMO DO YOU USE ON REFER	E 08	6 395 61-42 DO YOU USE OR REFER TO	G 346 61-43 DO YOU USE OR REFER	A 197 61-44 DO YOU USE OR REFER TO THE 1		SENICONDUCTORS	INFORMATION	6 400 GI+47 DO TOU USE ON REPER	E W	TOU USE OR	G 403 51-50 00 YOU USE OR REFER	62-01 00 YOU	G 405 62-02 DO YOU INSPECT TRANSISTORS	00 40-25	408 62-05 00 100	4 109 62-00 DO TOU USE OR REFER TO COLLECT AND REVERSE RESISTANCE NEASUREMENTS	

TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

SPC SPC SPC	64 64 62	14 15	57	43 43 36	14 14 15	55.00	57 57 54	29 29 23	34 36 31	29 29 23	14 14 15	4 4 4	7 7 9	7 7 9 0	71 71 69	100	2.2	71 71 69	21 21 21		14 14 15		
0 y - 15K	*10 G2-07 DO YOU USE ON REFER TO EMITTER - COLLECTOR (EC) RESISTANCE MEASUREMENTS	ILL 62-08 DO YOU USE OR REFER TO MON BIASING AFFECTS THE PHYSICAL BARRIER MIDTH OF THE EMITTER - BASE JUNCTION	PHYSICAL BARRIER WINTH OF THE COLLECTOR - BASE JUNCTION	13 42-10 DO YOU USE OR REFER TO THE PHYSICAL SIZE OF THE	114 G2-11 DO YOU USE OR REFER TO LEAKAGE CURRENT (1080) IN A	000	91. 92, 93, ETC	INFORMATION OF BEFER TO THE GENERAL RULE THAT THE TRANSISTOR BASE CURRENT 18 IS NORMALLY SIGNIFICANTLY SMALLER THAN THE EMITTER CURRENT IE (USUALLY 18 BEING 2 TO	# \$2-16 DO YOU USE THE INFORMATION THAT THE EFFECT OF EMITTER BASE VOLTAGE ON BASE CURRENT IS THE CONTROLLING FACTOR FOR	TRANSLETON OU USE THE GENERAL RULE THAT LEAKAGE CURRENT (CORRENT LICHOL) IN A TRANSLATOR INCREASES AS TRANSLATOR INCREASES	121 GZ-18 DO TOU USE ON REFER TO TRANSISTOR CHARACTERISTIC	123 62-19 DO YOU USE OF REFER TO BETA TRANSISTOR GAINS 123 62-20 DO YOU USE OF REFER TO ALPHA TRANSISTOR GAINS	TOU CALCULA	62-29 00 700	PRESENT JOB		70.00	132 63-05 DO TOU TROUBLESHOOT TO AMPLIFIER COMPONENTS	134 63-09 DO TOU RESOVE OR REPLACE APPLIFIER COMPONENTS	COLLECTOR CURRENT MAJON RESULTS FROM A CHANGE IN BASE	436 63-09 DO YOU USE OF REFER TO (COMMON EMITTER) THE	COLUCTOR CURRENT WHICH RESULTS TRON A SPECIFIC CHANGE IN	BASE CURRENT

TASK GROUP BUCKARY
TASK GROUP BUCKARY
TERCELT KRUERS PERFORENCE

	DYTTSK	5 P C	596	SPC 154	
9	G +37 43-10 DO TOU USE OF REFER TO ICOMMON EMITTER) THE CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A CHANGE IN BASE	2	ĩ	23	
•	438 63-11	•	,	<b>10</b>	
•	80 350 nox 00	:	•	51	
•	DO 100 C	1	^	•	
•	G 44] 63-14 DO YOU USE THE LOAD-LINE METHOD OF ANALYSIS IN YOUR CIRCUIT ANALYSIS (THIS METHOD REQUIRES YOU TO PLOT A	1	•	•	
•	COAD-LINE ON A TRANSISTON CHREACTERISTIC CURVE) 6 442 64-15 OO YOU USE ON REFER TO THE OPERATING POINT &	*	<u>*</u>	<b>s</b> :	
•	6 443 63-16 DO YOU CALCULATE THE SPECIFIC QUIESCENT POINT FOR A	1	1	<b>40</b>	
•	G 444 GT-17 DO YOU MEASURE VOLTAGE GAIN USED IN THE COMMON ENITTER CONTINUENTON	5.6	62	16	
•		12	7.7	23	
•		5.8	5.7	11	
•		0	0	٥	
•	•	9	0	0	
•	CURRENT OF DEFENDE THE COMERT OF A SPECIFIC TRANSISTOR USING A FORMULA THAT IS, DO YOU WULTIPLY THE CURRENT GAIN TO DETERMINE THE POLITAGE GAIN TO DETERMINE THE POLITAGE GAIN TO DETERMINE THE	0	0	0	
•	450 63-23 GENERA INCREA	2.1	7	23	
•	6 451 63-24 DO TOU COMPUTE THE STATIC OPERATING POINT EGG OF A TRANSLATOR AT DIPPERSY TEMPERATURES	-	<u>*</u>	9	
•	6 452 63-25 DO TOU DENTIFY ON SCHEMENTS DISCHARS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH EMITTER (SHEMENE) RESERTOR START INC.	36	*	7	
•	6 453 63-26 DO TOU IDENTIFY ON SCHEMATIC DIAGRANS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED MITH SELF-BIAS STABILIZATION	29	5.6	2.3	

TASK GROUP SUNNERT

SPC SPC SPC 151 152 154	5	5	29 29 23	29 29 23	Ţ :	36 31	36 36 31	36 36 31	36 36 31	36 36 38	43 43 38	29 29 23	21 21 15	51 11 18	21 21 23	8	* * * * * * * * * * * * * * * * * * * *	5.6	14 14 15	. *
X 2 T = Y U	63-27 DO YOU IDENTIFY ON SCHEHATIC DIAGRAMS AND RELATE THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH THERMISTOR STABILIZATION	YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATERAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH BIAS DIODE STABILIZATION	6 456 G3-29 DO YOU IDENTIFY ON SCHEMATIC DISGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH REVERSE BIAS DIDDE STABILIZATION	6 457 63-30 DO TOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH DOUBLE DIDDE STABILIZATION	63-31 00 TOU TROUBLESHOOT CIRCUITS WHICH HAVE MHICH PERFORM EMITTER (SWAMPING) RESISTOR STA	S	G 461 GABAR OF YOUR STABLLIZATION G 461 GABAR OF YOU TROUBLESHOOT CIRCLITS MAVE COMPONENTS	G 462 63-35 OF YOU TROUBLESHOOT CIRCUITS MILE MAVE COMPONENTS WHICH PERFORM REVENUE 118 DIODE STABLE 124 TON	G 463 63-36 DO YOU TROUBLESHOOT CIRCUITS WHICH MAVE COMPONENTS	AMPLIT	6 465 63-38 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF AMPLITUDE DISTORTION	G 466 63-39 DO YOU IDENTIFY FREQUENCY DISTORTION FOR TRANSISTOR	G 467 63-40 DO YOU LOENTIFY PHASE DISTORTION FOR TRANSISTOR	G 468 63-41 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE	G 469 63-42 DO TOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF FREQUENCY DISTORTION	G 470 63-43 DO YOU NEED TO KNOW THE DEGENERATIVE EFFECTS ON THE CIRCUIT CAUSED BY CHANGING EMITTER RESISTANCE FOR TRANSIOR AMPLIFIERS IN THE COMMON COLLECTOR	G 471 G3-44 DO TOU DETERMINE THE CLASS OF OPERATION FOR AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS	472 63-45 DC YOU TROUBLESHOOT OR REPAIR PARAPHASE	G 473 69-46 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AFFLIFIERS G 474 69-47 DO YOU TROUBLESHOOT OR REPAIR COMPLEMENTAT SYNKETRY	CINCUITS 475 63-48 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED AMPLIFIERS

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PCT MBRS RESPONDING TEST BY SELECTED GRPS	TASK GROUP SURKARY PERSONALING	DY-15K	6 474 63-47 DO YOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED	HI-DI DO YOU USE ON REFER TO	478 HI-02 DO 100 USE ON REFER TO	TANGETHEED DO TOU USE OF REFER TO FIELD EFFECT INAMINIONS (FET.)	481 HI-DE DO YOU USE OR REFER TO	482 HI-04 DO YOU USE OR RE	THE TOTAL TO YOUR TENDENCY DOLLD BOT BOT WITH TOTAL SOUTHING	485 M2-03 DO 100	*84 HZ-04 00 YOU	T ABY 124-05 DO YOU TROUBLESTOOT TO PORRY SUPPLY CIRCUIT LEVEL.	489 42-07 00 700	490 H2-08 DO TOU REHOVE OR	441 H2-09 DO YOU WORK MITH	492 MZ-10 DO TOU WORK WITH	493 HZ-11 DO YOU WORK WITH	494 H2-12 DO YOU WORK WITH THREE-	495 HZ-13 DO YOU USE OH REF	496 H2-14 DO YOU USE OR REFER TO	00 100 USE OR REFER TO	449 42-17 DO YOU USE	500 HZ-18 DO YOU USE OR REFER TO	501 HZ-19 DO TOU USE OR REFER TO	502 HZ-20 00 TOU USE OR REFER TO		FILTERS	FILTERS	A SUB ACCES ON THE CONTROL OF THE CAMPON AND CAMPON CAMPON THE CAMPON CA	H 507 H2-25 DO TOU MORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE	H 508 H2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE	FILTERS	A 504 MARZY DO TOU TORK MITH CINCUITS WHICH EXPLOY AC PINITYE		HELEOBER WHICH ITE OF FILES OF SEPLACING ONE TYPE OF	H 512 H3-01 00 FOU WORK WITH OSCILLATORS IN YOUR PRESENT JOB

TASK GROUP SUMMARY PERCENT MEMBERS PLAFORMING

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07-75K	2 DO YOU INSPECT OSCILLATORS 3 DO YOU ALIGN OR ADJUST OSCILLATORS 3 DO YOU REMOVE OR REPLACE COMPLETE OSCILLATORS 4 DO YOU REMOVE OR REPLACE COMPLETE OSCILLATOR COMPONENTS 5 DO YOU TROUBLESHOOT TO OSCILLATOR COMPONENTS 8 DO YOU USE OR REFER TO FEEDBACK 9 DO YOU USE OR REFER TO FREQUENCY DETERMINING DEVICES	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11-05 DO TOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING CINCUITS 11-05 DO TOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING CINCUITS 11-05 DO TOU TROUBLESHOOT TO MAVE GENERATING OR SHAPING CINCUIT COMPONENTS 11-05 DO TOU REHOVE OR REPLACE COMPLETE MAVE GENERATING OR COMPONENTS 11-09 DO TOU REHOVE OR REPLACE MAVE GENERATING UR SHAPING COMPONENTS 11-09 DO TOU BORK WITH MULTIVIBRATORS WHICH CONTAIN LC TANN CIRCUITS
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## TASK GROUP SUBSTANT

										LIMITERS AND	CLAMPERS							The state of the s			ELECTRON THRES																				
SPC 154	7	8	10	31	31	31	31	5.4	;	9 6	53	18	3.	73	3.8	31	3.1	-	42	11	69	29	69	26	2.	15	7	23			23		85	11	9 5	6.2	26		;		
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DY-15K	1 548 11-10 00 TOU WORK MITH MULTIVIBRATORS WHICH CONTAIN RC	1 549 11-11 DO YOU WORK WITH HULTIVIBRATORS WHICH CONTAIN	1 SSG 11-12 DG YOU WORK MITH MULTIVIBRATORS WHICH CONTAIN DON'T REMEMBER IMICH IMPE OF FOO	I SSI II-IS DO YOU NORK WITH ASTABLE HULTIVIBRATORS	562	11-15 DO YOU WORK	×	1 555 12-01 DO YOU WORK WITH LIMITERS OR CLAMPERS IN YOUR	200 00 00 00 00	200	12-04 DO TOU WORK WITH	12-05 00 YOU WORK WITH	12-04 DO YOU WORK WITH	12-07 DO TOU WORK WITH DON'T	12-08 DO YOU WORK #1TH	YOU WORK WITH	1 564 12-10 DO TOU MORK WITH DON'T KNOW WHICH TYPE OF CLAMPING	CIRCUIT	SAME TAIL IN TOUR PRESENT LOB. BO YOU NORK ON EACHTRENT WHICH	1 566 13-02 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD	13-U3 DO YOU USE TUBE TESTERS TO CHECK ELECTRON TUBES	13-04 DO YOU	13-05 00 YOU USE	350 00 40-61	13-07 DO YOU USE OR REFER TO CUTOFF	13-08 00 YOU USE	13-09 00 YOU USE OR	YOU USE OR REFER	13-12 00 100 035	13-13 DO YOU USE OR REFER	13-14 DO YOU COMP	RESISTANCE FOR ELECTRON TUBES	13-15 00 100 USE ON REFER	13-16 DO YOU USE OR REFER TO	13-17 DO YOU USE OR	13-18 DO YOU USE	13-19 DO YOU USE OF	TOTAL 1917 TO TOTAL ON THE PARTY TO THE TOTAL TO THE TAIL THE THE TAIL THE	FACTOR (THE AMPLIF	0 0	VOLTAGE)

GPSUMB PAGE 22		245 245	152 154	9 1	21 23	20 6	7 8	9 1	7 6	43	9 4	51 .1	51 +1	29 31	21 23	19 77		9, 05				9		, a		40 17	79 17	21 15 ELECTRON TUBE AMPLIFIERS AND CIRCUITS	
		SPC	. 5	1	77	7	1	1	^	7	^	•	-	5.5	77	10	?	9	:		 . :	-	10	-			10	2	
PCT MBRS RESPONDING TEST BY SELECTED GRPS	PERCENT MEMBERS PERCORNING		01-15A	SSE 13-22 DO YOU CALCULATE ACTUAL VALUES "- TRIODE	587 13-23 DO YOU USE OF REFER TO MULTIGRID ITETHODE, PENTODE,	588 13-24 DO TOU USE OR HEFER TO ELECTRON TUBE TRANSCONDUCTANCE	589 13-25 DO TOU CALCULATE ACTUAL VALUES OF ELECTRON TUBE	590 13-20 DO YOU USE OR REFER TO THE ELECTRON TUBE PARAMETER	591 13-27 DO YOU CALCULATE ACTUAL VALUES OF AC PLATE	RESISTANCE 592 13-28 DO 700 USE OR REFER TO ELECTRON TUBE INTERELECTRODE	593 13-24 DO YOU USE OR REFER TO CHARACTERISTIC CUNVES IN YOUR	Set 13-10 DO TOU USE CHARACTERISTIC CURVES TO SELECT PLATE	SPS 13-31 DO FOU USE CHRACKERISTIC CURVES TO SELECT PLATE CHRACKERISTIC CURVES TO SELECT PLATE	596 13-32 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS	SOT 13-33 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS	REGULARD FOR SATURATION See 13-34 DO YOU USE OR REFER TO ELFCTRON TUBE AMPLIFIER GAIN	13-35 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER	•	TUBE AMPLIFIER GAIN 60: 13-37 DO YOU USE MULTIMETERS TO DETERMINE ELECTRON TUBE	13-36		AS IMPUT CAPACITANCE	SES 13-41 DO YOU USE ON REFER TO TUBE SOCKET NOTATION		CHENTING TEMPERATURE OF THE EMITTING SORFACE IN THE ELECTRON TUBES YOU HORK ON	SUCH AS MANUALS OF CHARTS	11-01 00 VOU "OR	7	
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TASK GROUP SUMMANT PERCENT MEMBERS PERFORMING

					SPECIAL PURPOSE ELECTRON TUBES													HETEROPYNING	MODULATION, AND	DEMODULATION				2007-200	AN STSTEMS	
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5 PC	2 5 6	36	20		46	53	5.7	7.1	7.	*	4	7.1	200	36	6 2	200	9	7.1	19		57	57	74	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	29	
181	***	36	20	9	9 ^	5.5	5.7	11	17	4	.0	7.1	57	36	52	200	9	11	10	:	57	57	54	29	53	
Dy + 15K	J 411 J1-03 DO TOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS J 412 J1-04 DO TOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS J 413 J1-05 DO TOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED		Œ	CATHODE )	U 618 UZ-02 DO YOU WORK WITH CATHODE-RAY TUBES	7.0	J 520 CA-05 GO YOU USE OF REFER TO THE CHARACTERISTICS OF	-	L BRZ CE-GO TO YOU USED OR REFER TO THE PRINCIPLES OF OPERATION OF	J 623 J2-08 DO TOU USE OF REFER TO THE PRINCIPLES OF OPERATION OF ELECTROMAGNETIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES	(CRT) J 624 J2-09 DO YOU USE OR REFER TO THE PRINCIPLES OF OPENATION OF SECTION SYSTEMS OF CATHODE-RAY TUBES	DO YOU USE OR REFER TO	J 626 J2-11 DO YOU USE ON REFER TO AGUADAG COATINGS	J2-13 DO TOU USE OF REFER TO	OR REFER TO	J2-16 DO YOU USE OR REFER TO PHOSPHORESCENCE	J 632 U3-01 DO YOU WORK ON TRANSMIT OR RECEIVE SYSTEMS IN YOUR	J3-02 DO YOU PERFORM TASKS ON FREQUENCY	LABLE LONDO YOU PERSONS TASKS ON TREPUENCY MIXERS	IN YOUR WORK	J3-05 DO YOU PERFORM	637 J3-06 DO YOU PERFORM TASKS ON MODULATED OSCILLATORS	N 648 ALEGE DO TOU BORK ON AN INANSKET ON AECETVE SYSTEMS IN TOUR	-	K1-04 DO TOU	

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TASK GROUP SUMMART PERCENT MEMBERS PERFORMING

PCT MBRS RESPONDING TEST BY SELECTED GRPS
TASK GROUP SUMMARY
PERCENT MEMBENS PERFORMING

										NUMBERING	SYSTEMS										LOGIC FUNCTIONS												
5 P C	.5	5 5	-			15		5	23	31	-	, -	38	31	31	23	31	31	2	3,1	3.1	31	1		;	-	;	;	73		7		:
5 PC	77	212	7.7	~	7 7	2.1	;	17	21	29	00	200	30	58	53	21	29	29	2	53	29	29	58	0	,	29	000		7 1		50	29	
151	12	22	7	2 :	7 7	21	;	17	2.1	29	3.0	20	36	5.2	53	7.1	29	50	0	53	29	54	29		,	5.8			7	,	53	29	
07-15R	ATELIT DO TOU PERFORM TASKS ON DRIVERS (INTERNEDIATE	474 K2-12 DO YOU PERFORM TASKS ON POWERPLIFIERS	KZ-14 DO YOU PERFORM TASKS ON	KZ-15 DO TOU PERFORM TASKS ON	ABOUT A ZELLE DO TOU PERFORM TANKS ON PERFOUNCY DISCREMENTATIONS	KZ-18 DO YOU TRACE SIGNALS OR	SCHEMATIC DIAGRAMS OF TH TRANSHITTERS	SOMETH DO TOU TARCE SIGNALS OF CURRENT PATES TAROUGH	685 X3-01 DO YOU CONVERT DECIMAL (BASE 10) NUMBERS TO OCTAL	CASE 8) NUMBERS 684 K3-02 DO YOU CONVERT DECIMAL NUMBERS TO BINARY (BASE 2)	NOTERIA CALCACTURA CATACACTURA CATACACTURA CON CONTRACTOR CONTRACT	200	K3-05 DO YOU CONVENT	K3-D& DO YOU CONVERT	691 K3-07 DO TOU ADD BINARY NUMBERS TO GET A SUM	6-92 KD-08 DO YOU SUBRRACT BINARY NUMBERS USING THE END-AROUND-	493 K3-09 DO TOU SUBTRACT BINARY NUMBERS USING THE DIRECT	K3-10 DO YOU ADD OCTAL NUMBERS TO GET A SUM	ARTHUR TO LOGIC TUNCTIONS	696 LI-02 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS	OR CATES AND CONSTRUCT TRUCH TABLES FOR OR LOGIC SYNEDIS	648 LI-34 DO YOU CONSTRUCT TRUTH TABLES FOR AND OR OR LOGIC	STREGES WITH STATE INDICATORS 699 LI-05 DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OF LOGIC	STABOLS	SYMBOLS OR GATES	701 X1-07 DO TOU USE OR REFER TO TRUTH TABLES FOR ON LOGIC	STABOLS OR GATES	TH STATE INDICATORS	REFER	LOGIC STMBOLS	LI-ID DO YOU USE OR REFER TO LOGIC SYMBOLS FOR	705 LI-11 DO TOU USE OF REFER TO LOGIC STREOLS FOR GATES	64165

TASK STOCT SCHALARY
PERCENT ARRENS PERFORMING

			BOOLEAN																						
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5 P C	5.6	5.6	-	*	7	::	7	•	•	5.0	7	2	**	*	2	*	•	***	50	**	*	*	5.8	5.	
SPC	5.6	5.	-	-	7	::	7	•	•	*	~	~	*	*	:	:	:	**	*	52	36		52	5.	
NY=15K	L 707 LI-13 DO YOU USE OR REFER TO LOGIC STRENES FOR EXCLUSIVE	L 708 L 2-01 IN YOUR PRESENT JOB. DO YOU PERFORM ANY TASKS RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS, OR LOGIC	CIRCUTS CIRCUTS COUPLED COUPLED	TIO 12-03 DO YOU CONSTRUCT TRUTH TABLES FOR CURRENT HODE LOGIC	CALL CIRCUIS LEAD DO YOU DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN	L 712 L2-05 DO YOU MEASURE INPUTS OR DUTPUTS OF LOGIC GATES	L 714 L2-07 DO YOU ANALYZE LOGIC CIRCUITS BY USING BOOLEAN	ALGEBRA  L 715 L2-00 BD YOU USE DR REFER TO LOGIC SYMBOLS FOR DIRECT	COUNTRY TARACTURE TO TRUTH TABLES FOR CURRENT MODE	L 717 L2-10 DO TOU USE DO REFER TO LOGIC DIAGRAMS CONSISTING OF	L 718 LZ-11 DO YOU COMPUTE SUN AND CARRY EXPRESSIONS FOR SERIAL	HALF OR FULL ADDER LOGIC DIAGRAMS L 719 L2-12 DO YOU TRACE DATA FLOW THROUGH PARALLEL FULL ADDER	LOGIC DIAGRAMS L 720 L2-13 DO YOU WORK WITH ASTABLE (FREE RUNNING)		L 722 LZ-15 DO TOU BORK MITH HONOSTABLE (ONE-SHOT)	L 723 L2-10 DO YOU USE OR REFER TO PLIP-FLOP HULTIVIBRATOR	L 724 LZ-17 DO YOU USE OR REFER TO SINGLE-SHOT MULTIVIBRATOR	1 725 L2-18 DO YOU USE OR REFER TO FLIP-FLOP CIRCUIT DIAGRAMS	727 L2-25 DO YOU USE OR	L 728 L2-21 DO YOU USE OR REFER TO COMPLEMENTING FLIP-FLOP LOGIC	129	L 730 LZ-13 DO 100 14CE DATA FLOW THROUGH CONFILENCED FLIP-FLOP	L 73; L2-24 DO TOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP-	L 732 L2-25 DO YOU CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP	LOGIC STMBOLS

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

									USE OF SIGNAL GENERATORS							MOTORS AND	GENERATORS										
S P C	77	200	7.4	40	9 #	97	;	8 S 8 S	11	11	90	S 4		2.5	7.		2 2	20	7 9	2 2	:	, ī	3.0	- 3	3.6		
5 P C	10		,	7	4.3	36	7	::	:	1.	:	77	2	::	2.5		20	5.7	5,	5.7	:	24	•	1 29	36	2 4 2	
5 P C	14		40	*	ç	*	:	::	*	1.1	*	25	25	**	15		205	57	22	5.7		5 6	:	::	:	5 6	
DY-15K	DO YOU WORK	742 41-04 00 100 USE 08	764 H1-08 DD YOU USE OR REFER TO	765 H1-09 DO TOU	H 765 MISTORNS H 765 MISTORNS ON REFER TO PHYSICAL LENGTH OF SAWTOOTH	M 747 MINETONIS OR REFER TO LINEAR SLOPE OF SANTOOTH	OU USE OR	H 769 HZ-01 DO YOU USE SIGNAL GENERATORS IN YOUR PRESENT JOB H 770 MZ-02 DO YOU PERFORM OPERATIONAL CHECKS WHILE USING SIGNAL	GENERATORS H 771 H2-03 DO TOU PERFORM PERIODIC MAINTENANCE SUCH AS ADJUSTING, ALIGNING, OR CALIBRATING WHILE USING SIGNAL	GENERATORS 6ENERATORS 772 M2-04 DO YOU TROUBLESHOOT TO AN ASSEMBLY OR SUBASSEMBLY WHILE USING SIGNAL GENERATORS	TROUBL	N 774 M2-05 DO YOU USE AUDIO SINE-MAVE GENERALDES N 775 M2-07 DO YOU USE AUDIO NON-SINUCIDAL MAVE GENERALDES SUCH	AS SQUARE WAVE, TR	#2-09 DO YOU USE RF	A 174 NATO THE STATE OF THE TOTAL OF THE TAXA NATION OF THE TAXA NATIO	SERENTIAL STATE OF THE CONTRACT OF THE CONTRAC	A 780 A3-02 DO YOU INSPECT MOTORS	782 H3-04 DO 70U OFERATE HOTORS	783 #3-05 00 700	DO 100 TROUBLE	CONNECTIONS OF MOTORS	DO YOU PERFORM ANY TASKS ON FIELD COILS	788 H3-10 DO YOU PERFORM ANY TASKS ON	I 186 MAILL DO YOU PERFORM ANY TANKS ON NOTORS	791 H3-13 DO YOU PERFORM ANY TASKS ON	N 142 MB-14 DO YOU PERFORM ANY TASKS ON CONNUTATORS N 145 MB-15 DO YOU PERFORM ANY TASKS ON POLE PIECES	

																MEIER MOVEMENTS									SATIIBABI E REACTORS	AND MAGNETIC	AMPLIFIERS						
5 PC	•	-	51	• 2	;	23	38		;	? •	3.			8.5	1,	3		23	8	54	11	62	7.7		,	2.4	*		e r	¥ 9	\$		:
5 PC	1	50	-	5.7	:	77	9	*	?	7 .	•	,			36	36		50	9	20	19	* *	15	**	0	20	7	;	?	50	0.5	2.9	
151	^	56	-	57	•	77	3.	-	?	7	*	-		9 6	36	36		7.0	99	20	19	4 v	19	-	n	0.5		;	?	9.0	50	79	:
DY=75K	w	TOTAL OF TOTAL PRINCE OF A MOTOR THE DIRECTION OF THE MOTOR THE DIRECTION OF THE	SOCIETA BY BACKETS THE BY THE CONTRACT OF STREET	747 M3-19 DO TOU WORK	708 M3-20 DO YOU WORK	799 M3-21 00 TOU WORK	9 0	802 M3-24 DO YOU CLE	43-25 DO 100	T DOE THEN DO YOU WILD'S OF PROPERTY OF PARTY OF PARTY.	43-28 DO 70U	CONNECTIONS	SERENATORS	BOS NI-DI DO YOU WORK WITH METERS IN YOUR PRESENT JOB	N 804 NI-02 DO YOU CONCEPTUALIZE ON CONSIDER THE FUNCTIONS OF	TO STORE THE WORLD BY CONTRACT OF CONSIDER THE FUNCTIONS OF	MOVING COILS	N BILL NI-04 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF	N 812 NI-OS DO YOU RELER SCALES	*1-04 00 40-1#	814 NI-07 DO TOU ZER	A SIS NITOS DO TOU ZERO ANTERERS	BIT NI-ID DO TOU USE OR REFER TO VOLT	UNI CISSIBATI	AMPLIFICAS IN YOUR PRESENT JOB	TOU 145	* 820 M2-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE	REACTORS		N 822 NZ-05 DO YOU TROUBLESHOOT MAGNETIC AMPLIFIERS OR SATURABLE	N 823 N2-06 DO TOU REMOVE OR REPLACE HAGNETIC AMPLIFIERS OR	N 824 N2-07 DO YOU RESOVE OR REPLACE NASKETLY AND LIFTER OR	SATURABLE REACTOR C

SPC												MAVESHAPING	CIRCUITS											2000	SINGLE SIDEBAND						
PV-TSK  TOU USE OR REFER TO HISTERESIS CURVES OR LODDS  S. ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF  THOU WEESVEET SCHEMATIC DRAW 1962 TO BEVELOP DUTPUT  S. ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF  THOU WEESVEET COURT WAVEFORS  OR LOAD RESISTORS OF SINGLE WINDING SATURABLE  TOU USE OR REFER TO POINT OF SATURATION IN  TOU USE OR REFER TO POINT OF SATURATION IN  TOU USE OR REFER TO PULSE RECURRENCE TIME (PRT)  TOU USE OR REFER TO PULSE RECURRENCE TIME (PRT)  TOU USE OR REFER TO PULSE RECURRENCE TIME (PRT)  TOU USE OR REFER TO PULSE RECURRENCE TIME (PRT)  TOU USE OR REFER TO PULSE RECURRENCE TIME (PRT)  TOU USE OR REFER TO PULSE RECURRENCE TIME (PRT)  TOU USE OR REFER TO PULSE RECURRENCE TIME (PRT)  TOU USE OR REFER TO THE CASSIFICATION OF TIME  S. TOU USE OR REFER TO THE CASSIFICATION OF TIME  TOU USE OR REFER TO THE CASSIFICATION OF TIME  S. TOU USE OR REFER TO THE CASSIFICAT	5.50	36	28	97		51	•	2	*	8 5	1	: :	8 5	5 8	*5		3.	:	5		•	,		0	00	0	0	,	0	0	
TOU USE OR REFER TO HYTERESIS CURVES OR LOOPS  ACROSS REACTOR MINDIAGS OR LOOP RESISTORS OF  INDING SATURBLE REACTOR  TOU UNITERPRE SCHEMATIC DRAWINGS TO DEVELOP OUTPUT  TOU USE OR REFER TO COERCIE MINDIAG SATURBLE  TOU USE OR REFER TO POINT OF SATURABLE  TOU USE OR REFER TO POINT OR SECRIF OR THE  TOU USE OR REFER TO POINT OR SECRIF OR THE  TOU USE OR REFER TO POINT OR RECEIVE SYSTEMS  TOU WORK WITH SECRIPORATION OR SECRIVE  TOU WORK WITH SECRIPORATION OR RECEIVE  TOU WORK WITH SECRIPORATION OR RECEIVE  TOU MORK WITH SECRIPORATION OR RECEIVE  TOU MORK WITH SECRIPORATION RECEIVE  TOU MORK WITH SECRIPORATION RECEIVE  TOU MORK ON THOUSE SO TRANSMIT OR RECEIVE  TOU MORK ON TRUDBLESHOOT TO SSO TRANSMIT OR RECEIVE  TOU REDUBLESHOOT TO SSO TRANSMIT OR RECEIVE	152	7 9	*	3.	^	-	,	12	0	:	1	:	:	:	05	7	36	;	:		:			0	9 0		0		0	•	
DY-TSK  2-06 DO TOU UNEERRE TO HYTERESIS CURYES OF LODDS  2-07 DO TOU UNEERRE TSCHEATIC DRAW 465 TO DEFULLOP OUTPUT  2-16 DO TOU UNEERRE TSCHEATIC DRAW 465 TO DEFULLOP OUTPUT  2-17 DO TOU UNTERPRET SCHEATIC DRAW 1065 TO DEFULD OUTPUT  2-18 DO TOU UNTERPRET SCHEATIC DRAW 1065 TO DEFULD OUTPUT  2-19 DO TOU UNTERPRET SCHEATIC DRAW 1065 TO DEFULD OUTPUT  2-19 DO TOU UNTERPRET SCHEATIC DRAW 1065 TO DEFULD OUTPUT  2-19 DO TOU USE OR REFER TO CORRITE FORCE IN SATURABLE  2-19 DO TOU USE OR REFER TO POINT OF SATURATION IN  2-19 DO TOU USE OR REFER TO POINT OF SATURATION IN  2-19 DO TOU USE OR REFER TO PUSE RECORDENCE TIME 1PT 1  2-19 DO TOU USE OR REFER TO PUSE RECORDENCE TIME 1PT 1  2-19 DO TOU USE OR REFER TO PUSE RECORDENCE TIME 1PT 1  2-19 DO TOU USE OR REFER TO PUSE RECORDENCE TIME 1PT 1  2-19 DO TOU USE OR REFER TO PUSE RECORDENCE TIME 1PT 1  2-19 DO TOU USE OR REFER TO PUSE RECORDENCE TIME 1PT 1  2-19 DO TOU USE OR REFER TO PUSE RECORDENCE TIME 1PT 1  2-19 DO TOU USE OR REFER TO PUSE RECORDENCE TIME 1PT 1  2-19 DO TOU USE OR REFER TO TRANSIFICATION OF TIME  CONSTANTS (T. 1 AS LONG, MEDIUM, OR SAORT  2-19 DO TOU USE OR REFER TO THE CLASSIFICATION OF TIME  CONSTANTS (T. 1 AS LONG, MEDIUM, OR SAORT  2-19 DO TOU USE OR REFER TO THE CLASSIFICATION OF TIME  CONSTANTS (T. 1 AS LONG, MEDIUM, OR SAORT  2-19 DO TOU USE OR REFER TO THE CLASSIFICATION OF TIME  CONSTANTS (T. 1 AS LONG, MEDIUM, OR SAORT  2-19 DO TOU USE OR REFER TO THE CLASSIFICATION OF TIME  CONSTANTS (T. 1 AS LONG, MEDIUM, OR SAORT  2-19 DO TOU USE OR REFER TO THE CLASSIFICATION OF TIME  CONSTANTS (T. 1 AS LONG, MEDIUM, OR SAORT  2-19 DO TOU USE OR REFER TO THE CLASSIFICATION OF TIME  CONSTANTS (T. 1 AS LONG, MEDIUM, OR SAORT  2-19 DO TOU USE OR REFER TO THE CLASSIFICATION OF TIME  CONSTANTS (T. 1 AS LONG, MEDIUM, OR SAORT  2-19 DO TOU USE OR REFER TO THE CLASSIFICATION  2-19 DO TOU USE OR REFER TO THE CLASSIFICATION  2-19 DO TOU USE OR REFER TO THE CLASSIFICATION  2-19 DO TOU USE OR REFER TO THE CLASSIFICATION  2-19 DO TOU USE OR REFER TO THE CLASSIFICATION	151		2	*	^	•	•	7	05	:	1	::	:	:	0	7	:	;	;		: :	,0		0 (	90	0	0		0	0	
	DY-15k	TO YOU USE ON REFER TO HYSTERESIS CURVES OR LOOPS OF YOU INTERPRET SCHEMATIC DRAW, MGS TO DEVELOP OUTPUT RMS ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF WINDING ATTURARY PRACTORS	DO YOU MEASURE OUTPUT MAYEFORMS ACROSS REACTOR MGS OR LOAD RESISTORS OF SINGLE MINDING SATURABLE DRSS	DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT	DO YOU USE OR REFER TO COENCIVE FORCE IN SATURABLE					BOLS IN TOUR MITH MAVESHAPING CIRCUITS IN YOUR PRESENT	STANDARD OF STREET STREET, STR	DO TOU USE OR REFER TO	DO YOU USE OR REFER TO PULSE	DO YOU USE OR REFER TO PULSE	USE OR	USE OR	OR REFER TO THE CLASSIFICATION OF	ASTARTS (TC) AS LONG, MEDICH, OR SHORT	FFERENTIATING OR INTEGRATING BASED ON THE TIME CONSTANT	DUTPUT CONFIGURATION	O OO TOO BOOK SITE SACARE SAVE GRANGATORS	I DO TOU WORK ON SINGLE SIDERND SYSTEMS IN YOUR	000	00	200	00 400	STEMS  36 DO YOU TROUBLESHOOT TO SSB TRANSMIT OR RECEIVE		REMOVE OR REPLACE SSB THANSHIT	COMPONENTS	

1 152 154		64 62 SYSTEMS 50 46 52 SYSTEMS 7 57 54 6 50 46 50 46 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
151		2 + 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0Y-75K	0 854 01-10 DO YOU PERFORM TASKS ON SSB AVDIO AMPLIFIERS 0 855 01-11 DO YOU PERFORM TASKS ON SSB CARRIER OSCILLATORS 0 855 01-12 DO YOU PERFORM TASKS ON SSB CARRIER OSCILLATORS 0 854 01-12 DO YOU PERFORM TASKS ON SSB CARTIER OSCILLATORS 0 855 01-13 DO YOU PERFORM TASKS ON SSB CATSTAL FILTERS 0 850 01-15 DO YOU PERFORM TASKS ON SSB DRIVERS 0 860 01-16 DO YOU PERFORM TASKS ON SSB DRIVERS 0 861 01-17 DO YOU PERFORM TASKS ON SSB DRIVERS 0 862 01-18 DO YOU PERFORM TASKS ON SSB PRACHEFIERS 0 862 01-19 DO YOU PERFORM TASKS ON SSB PREQUENCY CONVERTERS 0 864 01-20 DO YOU PERFORM TASKS ON SSB PREQUENCY CONVERTERS 0 864 01-22 DO YOU PERFORM TASKS ON SSB DEMODULATORS 0 865 01-21 DO YOU PERFORM TASKS ON SSB DEMODULATORS 0 864 01-22 DO YOU PERFORM TASKS ON SSB DEMODULATORS 0 864 01-22 DO YOU PERFORM TASKS ON SSB DEMODULATORS 0 864 01-22 DO YOU PERFORM TASKS ON SSB DEMODULATORS 0 865 01-22 DO YOU PERFORM TASKS ON SSB DEMODULATORS 0 865 01-22 DO YOU PERFORM TASKS ON SSB DEMODULATORS 0 865 01-22 DO YOU USE OR REFER TO PEAK POWER 0 870 01-25 DO YOU USE OR REFER TO PEAK POWER 0 871 01-25 DO YOU USE OR REFER TO PEAK POWER 0 872 01-25 DO YOU USE OR REFER TO PEAK POWER 0 872 01-25 DO YOU USE OR REFER TO PEAK POWER 0 873 01-25 DO YOU USE OR REFER TO PEAK POWER 0 874 01-25 DO YOU USE OR REFER TO PEAK POWER 0 877 01-25 DO YOU USE OR REFER TO RESPONSE CURVES FOR	TRANSHITTERS  0 873 01-29 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SSB  TRANSHITTER SCHEMIC DIAGRAMS  0 874 01-30 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SSB  PRECEIVER SCHEMATIC DIAGRAMS  0 875 02-01 DO YOU WORK ON PULSE MODULATION SYSTEMS  0 876 02-02 DO YOU CLEAN POLLSE MODULATION SYSTEMS  0 877 02-02 DO YOU CLEAN POLLSE MODULATION SYSTEMS  0 878 02-03 DO YOU CLEAN POLLSE MODULATION SYSTEMS  0 878 02-04 DO YOU LIROUBLESHOOT TO PULSE MODULATION SYSTEMS  0 879 02-05 DO YOU TROUBLESHOOT TO PULSE MODULATION SYSTEMS  0 880 02-05 DO YOU REMOVE OR REPLACE PULSE MODULATION SYSTEMS  0 881 02-07 DO YOU WORK ON PULSE-AMPLITUDE MODULATION (PDH)  SYSTEMS  0 883 02-07 DO YOU WORK ON PULSE-DURATION HODULATION (PDH)  SYSTEMS  0 884 02-11 DO YOU WORK ON PULSE-DURATION HODULATION (PDH)  SYSTEMS  0 885 02-11 DO YOU WORK ON PULSE-CODE WODULATION (PCH) SYSTEMS  0 885 02-11 DO YOU WORK ON PULSE-CODE WODULATION SYSTEMS  0 885 02-11 DO YOU WORK ON PULSE-CODE WODULATION SYSTEMS  0 885 02-11 DO YOU WORK ON PULSE-CODE WODULATION SYSTEMS  0 885 02-11 DO YOU WORK ON DON'T REMEMBER WHICH TYPE OF WODULATION SYSTEMS

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PCT MERS RESPONDING TEST BY SELECTED GRPS TASK GROUP SUMMARY PERFORMING

151 152 154	64 64	64 64 62	64 64 62	90 50 54	\$0 80 S4	57 57 54	\$7 57 54	29 64 65	57 57 54	57 57 54	57 57 54	300		43 46	14 14 15	64 62	***		,	64 64		64 62		;	64 64 62		19	79 79 77
DY-15K	BRR G2-15 DO YOU PERFORM TASKS ON PULSE MOUULATION SYSTEM	390 02-14 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM	TASKS ON	892 02-18 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM	593 02-19 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM	SMITCHES SUCH AS GAS THYRATRONS SMITCHES SMI	PULSE TRANSFORMERS  845 OL-21 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM TRANSMITTER THEFA		847 02-23 DO TOU PERFORM TASKS ON PULSE MODULATION SYSTEM	698 02-24 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM	IF AMPLIFIERS 899 02-25 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	DETECTORS PERFORM TASKS ON	VIDEO AMPLIFIERS	SOLE CONTROL TO THE PERFORM TASKS ON PULSE HODULATION SYSTEM	902 32-28 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM	DON'T REMEMBER WHICH PULSE MODULATION SYSTEM STAGES	(PRF)	02-31 DO YOU USE OR REFER TO PULSE WIDTH (PW)	02-32 DO YOU USE OR REFER TO PULSE	02-33 DO YOU USE OR REFER TO	909 02-35 DO YOU CALCULATE PULSE RECURRENCE TIME (PRT) OF PULSE	-	RECURRENCE FREQUENCY (PRF	PEAK	912 02-38 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE	ADDUCTATION TRANSMITTER SCHEMATIC DISCRAMS	0	915 03-02 DO YOU INSPECT ANTENNAS

SPC	151 152 154			*				57	29 29 31		20 20 31	21 21 21	:	21 21 23		21 21 23		21 21 21		17	•		24	21 21 23		14 14 15	29 29 23	21 21 15			7 7 8	43 43 38		21 21 15			
	DY-TSK	916 03-03 00 100	917 03-04 00 700	918 03-05 DO YOU	*1. 03-0+ DO YOU	920 03-07 DO TOU TROUBLESHOOT	03-08 00 100	922 03-09 DO YOU REHOVE	923 03-10 00 100 USE OF	REPRESENTATIONS OF	D 424 03411 DO 400 USE ON REPENT TO TECHNICAL DATA CONTAINING	SALE DEFENDANT NO MOTATION OF THE MEMBERS TO SECURE OF THE PROPERTY OF THE PRO	IN MELATION TO THE ELECTRIC LINES OF FORCE FOR ANTENNAS	USE OR REFER TO THE GENERAL RUL	ANTENNAS MAICH ARE OF CORRECT LENGTH (HALF-MAYE) ACT AS INDUCTIVE LOADS TO THE GENERALOR	0 427 03-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS	BRICK ARE LONGER THAN A MALF-WAVE ACT AS INDUCTIVE LOADS	SALVATE TEXT TIME LAGREST THE CT STATE OF THE TAX	BRICK AME STORTER THAN A HALF-WA	929 03-16 DO YOU WORK WITH	930 03-17 DO YOU WORK WITH MARCON! AN	931 03-18 DO 70U MORK WITH	932 03-19 DO TOU WORK WITH	O SUBSTITUTE OF THE MINISTER AND THE COMPANY OF THE	0 15 00 15 10 NO. UST	O 934 03-23 DO YOU MEASURE ELECTROMAGNETIC INDUCTION FIELDS OF	U 937 03-24 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC	NOTIFICATION TO THE ELECTRONAGE OF THE PARTY	FIELDS OF ANTENNAS	D 414 C1426 DO FOU CSE OF REFER TO THE TIME PHASE OF ELECTRIC (E.)		0 941 03-28 ARE ANY OF THE ANTENNAS YOU WORK ON LINEARLY	POLARIZED	C 642 03-29 ARE ANY OF THE ANTENNAS YOU BORK ON CIRCULARLY	0 943 03-30 00 YOU HEASURE OR DETERMINE THE POLAHITY OF ANTENNAS		SPECIFIC MAVELENSTHS

# PCT MBRS RESPONDING TEST BY SELECTED GRPS TASK GROUP SUNMANT PERCENT MEMBERS PERFORMING

								And the second of the second o	TRANSMISSION LINES																				
5 P.C	23	23	23	29	5.	53	•	20		1.5	4	: :	-	•	23	23	23	51	•	:	.2	•		ī.	:	* 5	,	:	•
286	77	2 3	21	*	57	29	*		:	-	*		:	,	52	7.7	7	<u>*</u>	7.	1.	:	^		2.	?	5.7	3	?	•
SPC	7	21	7	;	5.7	53	*:			=	:		•	,	**	7	72	-	-	1.	:	^	;	•	?	57	:	?	•
X21-73	0 945 03-32 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC	0 946 05-13 OF THE ANTENNA ARRAYS TOU NORK WITH CONTAIN PARASITIC FIRMING SERVING AS DIRECTORS		0 948 03-25 DO THE ANTENNA ARRAYS YOU HORK WITH CONTAIN DON'T		03-37 00 700	851	COST COLOR OF THE MAIN AND AND AND AND AND AND AND AND AND AN	2	P 954 PI-02 DO YOU REFER TO OR USE COPPER LOSS OF 12R LOSS IN	TREMESTOR LINES  TREMESTOR LINES  TO SET PER SKIN FFFFFF OF USE SKIN FFFFFFF OF DESCRIPTION OF D		THE STATE OF THE METER TO OR USE RADIATION LOSS IN TRANSMISSION	P 957 PI-OS DO YOU USE OR REFER TO DIFLECTRIC LOSS IN	P 958 PI-DE DO YOU USE OR REFER TO LEAKAGE LOSSES IN TRANSMISSION	SIRIT MOISSIRSNESS BIRE GREENSTED HITE YEAR DOA DO LO-TH 454 A	P1-08 DO TOU WORK WITH	P1-09 DO YOU WORK	P 962 PI-10 DO YOU WORK WITH PLEXIBLE COAKIAL CABLE TRANSMISSION	P 963 PI-11 DO TOU MORK WITH RIGID COAKIAL CABLE TRANSMISSION	P 964 PI-12 DO TOU TROUBLESHOOT TRANSHISSION LINES	P 965 F1-13 DO YOU AMALYZE VOLTAGE OR CURRENT MAVEFORMS IN TRANSMISSION LINES TO DETERMINE THE TYPE OF TERMINATION	-	TERRIBATIONS TO ACTIEVE DESIRED RACEDORS	P 947 P1-15 DO YOU USE OR REFER TO SCHEMATIC SYNBOLS FOR LINE	TO ASS BILLS DO YOU MEASURE STANDING MAYE RATIOS (SR) OF	SURIL ROLLING MARK DELOCATE MARKET TO SOLUTION OF THE SAME	TRANSMISSION LINES	F 470 Firls DO YOU PERFORM THE CALCULATIONS NECESSARY TO DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER - MAVELENGTH MATCHING TRANSFORMERS TO MATCH TRANSMISSION LINES TO LOADS

TASK GROUP SCHREAT

SPC SPC SPC 151 152 154	29 29 23	9 1 1	7 7 8	21 21 23	14 14 15	21 21 23	\$- 	36 36 38	34 34 38	29 29 31		21 21 23	36 31	;	58 27	1.6	79 79 85 CAVITY RESONATORS	: :	20	36 36 36		5.7	57	29 29 31	05	5.	***	200	
07-75K	P 971 PI-19 DO TOU WORK WITH TRANSMISSION LINES WAICH ARE MATCHED TO LOADS USING MATCHING TRANSFORMERS	P 972 P1-20 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOADS USING DELTA MATCHING	P 473 P1-21 DO YOU SELECT THE TYPE OF TRANSMISSION LINE NEEDED	P 974 PI-22 DO YOU USE OR REFER TO THE TERM CHARACTERISTIC	P 475 PI-62 DO TOU CALCULATE THE CHARACTERISTIC IMPEDANCE 120) OF	P 974 PLANE DO YOU USE OR REFER TO THE TERM CUTOFF FREQUENCY OF	P 977 PI-25 DO TOU USE OF REFER TO THE TERM VELOCITY FACTOR (K)	P 478 P1-52 DO TOU COMPUTE THE ELECTRICAL LENGTH OF THANSMISSION	P 979 PI-27 DO YOU CONSTRUCT TANNSHISSION LINES OF PARTICULAR	P 980 PI-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT AS THE	TRANSMISSION LINES REMAIN CONSTANT, THE ELECTRICAL LENGTH	P 48; PI-29 DO TOU MORK WITH NONRESONANT (FLAT) TRANSMISSION	P 982 PI-30 DO YOU MORK WITH RESONANT TRANSMISSION LINES	TO LOADS USING STUB HA	THE TOTAL DO TOU BOXX MITS TAVERDUDES ON CAVITY RESONATORS IN	985 PZ-02 DO TOU	TO SOLD TO TOU CLEAN SAVEGUIDES OR CAVITY RESONATORS	P2-05 00 TOU	989 72-04 00 700	P 940 P2-07 DO YOU PURGE WAVEGUIDES ON CAVITY RESONATORS	942 62-09 00 700	PZ-10 DO YOU REMOVE	PZ-11 DO TOU REMOVE OF INSTALL	P 445 P2-12 DD 400 REMOVE OF INSTALL E BENDS	PZ-14 DO YOU REMOVE OR INSTALL	P2-15 DO YOU REHOVE OR INSTALL	PACCO PASSE DO TOU REMOVE OR INSTALL ROTATING COUNTS	PZ-18 DO TOU REHOVE OF INSTALL	PIDGS P2-19 DO YOU USE OR REFER TO "A" WALL OF WAVEGUIDES

345 345	152 15	1 1 9	29 29 31	7 7 8				,	0 0	51 51 51		91 +1 +1		1 1 .		\$0 80 P4	0	21 21 23		51 11 11	51	14 14 15	36 36		36 36 38	36 36 38	** 05	2	36 36 38	51		51 11 11	
	78Y-10	DO YOU USE OR REFER TO	#2-21 00 YOU USE OR REFER TO	P2-22 DO YOU USE OR REFER TO	***EGUIDES	11006 PZ-Z3 DO TOU USE OR REFER TO POWER-DETERMINING WALL OF	WAVEGUIDES	משני מער בר בי	1008 P2-25 DO YOU USE OR REFER TO MAGNETIC FIELD BOUNDARY	CONDITIONS	CONDITIONS	TOTO P2-27 DO YOU USE OF REFER TO THE GENERAL RULE TAXT NOST	TO THE THE TANK OF	1011 P2-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST .A.	MALLS RANGE FROM .2 TO .5 MAVELENGTHS IN SIZE, MITH .35	1012 P2-29 ARE YOU CONCERNED WITH THE MATERIAL (SUCH AS GRASS)	1013 P2-30 DO YOU COMPUTE THE LENGTH OF A MAVEGUIDE FOR SPECIFIC	DETERNINE	DIRECTION OF PROPAGATION, DIRECTION OF SES FIELD, OR	1015 P2-32 DO YOU USE OR REFER TO THE TIME PHASE OF PEAK "E" OR	TOTA TA-33 DO TOU MEASURE THE TIME PHASE OF SE OR THE LINES IN	1017 P2-34 DO YOU USE OF REFER TO THE SPACE QUADRATURE OF "E" OR	STORES OF STANKS	RESONATORS YOU MORK WITH	1019 P2-16 ARE LOW POWER PROBES USED ON MAYEGUIDES OF CAVITY	1020 P2-37 ARE LOOPS USED ON MAVEGUIDES OR CAVITY RESONATORS	538		1022 P2-39 ARE DON'T REMEMBER THE KIND OF ENERGY COUPLING USED	AL CONTROL OF CONTROL PROPERTY SAFETY OF CONTROL OF CON	MAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERENCE TO	TECHNICAL DATA	

UF	51	11	• 5	36		2.0	31	•	:	6.2		AMPLIFIERS AND		) ai	11				15	1.5	* 0	V 2.		23				7			•			7		
154																																				•
5PC 152	-	29	5.7	*	*	7	2.0	7	?	57			1	7	5 2	1		7	-	F (	20	200			57						7			6		,
151	-	•	5.7	36	2	; =	58	?	+	5.7		,	1	,	53	7		1	7	- :	20	200	;	51	25	: :	3	*	50		?:	20	- :	6	2 2	2
DY-15K	PIGZS P2=42 DO YOU DETERMINE THE POSITIOMING OR SIZE OF APERTURES IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO	PIDZ6 P2-43 ARE CHOKE JOINTS USED IN MAVEGUIDES OR CAVITY RESONATORS YOU MORK BITH	PIGZY PZ-44 ARE ROTATING JOINTS USED IN MAYEGUIDES OR CAVITY RESONATORS YOU WORK WITH	PLOZE PZ-45 ARE DON'T REMEMBER THE KIND OF JOINTS USED IN	THE REAL PROPERTY AND CONTRACTOR OF THE PARTY AND CONTRACT	PICAS PALLO DO YOU TUNE CAVITY RESONATORS USING MUDICIPLE TUNING	P2-48 DO YOU TUNE CAVITY	TLE METLOD OF THE CAVITY	PIGSS P2-50 DO YOU MEASURE THE FREQUENCY OF SIGNALS IN CAVITY	DAY PACE IN YOUR PRESENT JOB OD YOU WORK WITH KLYSTRONS.	TRAVELING MAVE TUBES (THT), PARAMETRIC AMPLIFIERS, OR	PACKETRONS MAGNETRONS	P3-03 00 YOU USE OR REFER	P3-04 DO YOU USE OR	P3-05 DO YOU USE OR REFER	CINCULAR PAGE OF YOU USE OF REFER TO PRINCIPLE OF FLECTRON VELOCITY	MODULATION	P3-07 00 100	P3-08 DO YOU WORK WITH	P3-09 DO YOU WORK WITH	1 - 10 00 100 mork mith	CARL SAME SAME SAME SAME SAME SAME SAME SAME	AMPLIFIERS	00 100	THE ST STOREST THIS MADE TO SO THE STOREST	200	200	P3-18 00 YOU	-1-14 00 YOU	1.1	P3-20 00 YOU	001 00 17-5	22-22 00 100	0 0	P3-25 00 YOU	200

SPC SPC SPC 151 152 154	20 00		80 50 54	S	29 29 31		5.7	05	7	0 5	20	2	2 2 2	7 7 8		8 / /	7 7 6	51 71		, , ,	14 15	:	5	51 11 11	\$! *! *!		\$0 80 84	\$5 05 05		* ; ;	43 43 46		34 34 38	** **		\$ 0\$ 0\$
X21-10	PS-20 DO TOU TUNE PARAMETRIC AMPLIFICAS	PIDAD 13-27 DO TOU TERFORM OPERATIONAL CHECKS OF TARREST	PIDEL P3-28 DO YOU TROUBLESHOOT PARAMETRIC AMPLIFIERS	F3-24 00 10U	PIDES PS-30 DO TOU REMOVE OR REPLACE PARAMETRIC AMPLIFIES	COMPONENTS	P3-31 00 YOU	045 P3-32 00 YOU	P3-33 00 10n	P3-34 DO YOU TUNE MAGNETRONS	1-35 00 100	-3-3+ DO 100	TOTAL PROPERTY OF SERVICE OF SEPTEMBER TOTAL PROPERTY OF SEPTEMBER TOTAL SEPTEMBER SEP	P3-39 00 700 USE OR	THO-CAVITY KLYSTRONS COLLECTOR PLATES	PIONS THE SO TOU USE OF REFER TO THE OPENATING PRINCIPLES OF	PLOTA PA-41 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES OF	FIGHT REFER TO THE DEFENT OF THE OFFRATING PRINCIPLES OF	THO-CAVITY KLYSTRONS PERDBACK LOOPS	PLOTE PS-43 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	PIGTY P3-44 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	THO-CAVITY KLYS	TWO-CAVITY KLYSTRONS BUNCHER CAVITIES	PLOTO P3-46 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES OF	PACTOR PACTOR OF STREET TO THE OPERATING PRINCIPLES OF	THO-CAVITY KLYSTRONS CATHODES	PIDDI P1-40 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	OR REFER	REFLEY ALYSTRON GRIDS	PIUSS PS-50 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON GRID CAVITY GADS	USE OR REFER TO	REFLEX KLYSTRON		TO SET PARTY AND THE CONTRACT OF STATE OF THE CONTRACT OF STATE OF	REFLEX KLYSTRON FILAMENTS	PIGST PA-SA DO YOU USE OR REPER TO THE OPERATING PRINCIPLES OF REPLEX KLTSTRON CATHODES

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DY-15K	PIDSS P3-55 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	PIGGO P3-57 DO TOU USE OR REFER TO THE OPERATING PRINCIPLES OF	PIDE! PRAVELING-WAVE TUBES CATHODES	TRAVELING-KAVE TUBES HODULATOR GRIDS	PICEN PARTICINE TO THE TOTAL ANDRES OF TRAINE TRINCIPLES OF	PIDSS PS-60 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF	PIGGS PAGE TO USE TO THE OPERATING PRINCIPLES OF	FIGSS F3-62 DO TOU USE ON REPER TO THE OPENATIME PRINCIPLES OF	TRAVELING-MAVE TUBES MAGNETS	PICHE PALES DO 100 59E ON REPENT TO THE OPERATING TRINCIPLES OF	PIGGT P3-64 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE	CIRCULATORS		PILOD PS-67 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTOR	DIODES	ISOLATORS	PILOZ PJI-69 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER REVERSE-	P3-70 DO YOU PERFORM TASKS ON ANODES	P3-71 DO YOU PERFORM TASKS ON	P3-72 DO YOU PERFORM TASKS ON	PILES TAINED TO TOT PRESIDE TIEST OF DESCRIPTION OF PROPERTY CANADAM C	P3-75 DO YOU PERFORM TASKS ON CATHODES	P3-76 DO TOU PERFORM TASKS	DE TOU DE TOU USE ON MEPER TO STORE	61-02 00 100 USE OF REPER TO SHIFT REGISTERS	GILLS GI-03 30 TOU USE OF REFER TO LOGIC SYMBOLS OF SHIFT	GISTS STOR DO TOU USE OR REFER TO LOGIC STABOLS OF STORAGE	REGISTERS	WEIGHT PRESENTERS	SILLS SI-DE DO TOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRANS OF SILLS OF REGISTERS	

PCT MBRS RESPONDING PTES" BY SELECTED GRPS

GPSUMS PAGE 40

		STORAGE DEVICES.							OT STATE TO	ANALOG CONVERTERS																	
154	7		23	•	23	-		•:2	-		•			•	23	23		:	53	23		2	23	23	23	23	
2 22	2.0	58	3		~	-		- 12	*	,		-		-	12	7.		:	7	7		~	~	~	7	~	
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DY-TSK  OF THE STATE OF EACH FLIP-FLOF OF A SHIFT REGISTER A SPECIFIED NUMBER OF SHIFT PULSES	ORK WITH DIGITAL COUNTERS.	DO YOU USE OR REFER TO	92-03 DO YOU USE OR REFER TO MAGNETIC	LILED DE-04 DO TOU USE ON REFER TO MAGNETIC DRUNS	48-ce bo too use on meren to	MENORY SYSTEMS	SYSTEMS	41124 62-08 DO YOU USE OR REFER TO VOLATILITY OF MEMORY SYSTEMS	GU-DI IN YOUR PRESENT LOB. DO YOU HORK MI	COLAT COLOR DE PARTICION DE LA COLOR DEL COLOR DE LA COLOR DEL COLOR DE LA COLOR DEL COLOR DE LA COLOR DEL COLOR DE LA COLOR DEL COLOR DE LA COLOR DEL COLOR DE LA	DIGITAL-TO-ANAL	VOLTAGES VOL	COUNT IN ELECTR	COLORS IN SERVICED FOR TAXABLE TO ANALON OF COLORS			ANALOG-TO-DIGITAL (A/D) CONVENTER	TIME ANALOG-TO-DIGITAL (A/D)	GILST GANDS DO YOU PERFORM DIGITIZE FUNCTION TASKS ON VARIABLE	DO TOO PERFORM DON'T RENEMBER MAINT	CIRCUITS	CONVERTERS	41136 93-11 DO YOU USE OR REFER TO HOLD FUNCTION OF A/D	GII37 GI-12 DO USE OF REFER TO COMPARE FUNCTION OF A/D	41138 93-13 DO VOE OF REFER TO DIGITAL FUNCTION OF A/D	GILLS GLAND TOUR PERFORM ANY TASKS ON MECHANICAL ANALOG-TO-	

0Y-15K	15.	152	151	
PRESENT LOS YOU WORK MITH PHANTASTRON CIRCUITAT IN YOUR	36	•	31	PHANTASTRONS
ALIST RZ-DI IN YOUR PRESENT JOB DO YOU MORK HITH SCHNITT TRIGGER	3.	36	38	
RIST RE-02 DO YOU TRACE DATA FLOW THROUGH SCHMITT TRIGGER	•	•	90	SCHMITT TRIGGERS
SCHEMATIC DIAGRAMS	*	36	•	
RILLA MEST IN YOUR PRESENT JOB DO YOU FABRICATE MULTICONDUCTOR	=		98	CARIF EADDICATION
CABLES CABLES 1145 R3-02 DO YOU FAMPICATE COAXIAL CABLES	:	:	9.5	CABLE FABRICALIUN
00 00 AG	53	5.7	54	
VISUAL READOUT STSTEMS SILAT SI-02 DO YOU PERFORM ANY TASKS ON NIXIE LIGHTS OR NIXIE	1	1	•	THEFT
LIGHT DECODER SYSTEMS SILMB SI-03 DO YOU ANALYZE MIXIE LIGHT DECODER SYSTEMS USING	0	•	0	DEVICES
BOOLEAN ALGEBRA				
\$2-61 DO YOU WORK WITH PHOTO TUBE	0	0	0	PHOTO SENSITIVE
SITSO SECT IN TOUR PRESENT LOB DO TOU NORK WITH CHOFFER CIRCUITS	* -			DEVICES
\$3-03 DO YOU	1			
SILES SECTOR DO YOU USE OR RETER TO EXCITATION TREGUENCIES	= =		5 5	SYNCHRONOUS VIBRATIONS
			: ;	(CHUPPER CIRCUITS)
SILSS SU-DE DO YOU USE SERVOS IN CONJUNCTION WITH CHOPPER	21	51	23	
	12	12	2	
CIRCUIT OPERATION S1157 53-06 DO YOU USE ERROR SIGNAL DEVICES IN CONJUNCTION WITH	56	5.8	31	
CHOPPER				
SILSM SMEDGED TOU USE COMPARISON CIRCUITS IN CONCUNCTION MITH	21	7.	53	
Youk	0	0	0	
TITED TI-02 DO YOU INSPECT INFRARED SYSTEMS	0	0	0	
TI-03 DO YOU CLEAN INFRARED SYS	0	0	0	INFRARED
TI-04 DO YOU ADJUST OR CALIBRAT	0	0	0	
TILES TIESS DO YOU OPERATE INFRARED SYSTEMS	00	0	0	
SYSTEMS	•	,	>	
TIILES TI-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF INFRARED	0	0	0	
TIIGE TI-OB DO YOU TROUBLESHOOT DOWN TO INFRARED SYSTEM	0	0	0	
TILE? TI-09 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF	•	•	0	
INFRARED SYSTEMS		•		
COMPONENT PARTS	•		0	

	LASERS	
5 5	000000000000000000000000000000000000000	000000000
55	000000000000000000000000000000000000000	202200000
SPC	000000000000000000000000000000000000000	200000000
X87-Y0		12-15 DO YOU USE OR REFER TO T2-16 DO YOU USE OR REFER TO T2-19 DO YOU USE OR REFER TO T2-20 DO YOU USE OR REFER TO T2-20 DO YOU USE OR REFER TO T2-20 DO YOU WORK WITH ACTIVE T2-23 DO YOU WORK WITH FULL S MIRRORS

## PERCENT HENDERS PERFORMING

									DISPLAY TUBES														PROGRAMMING									
SPC	0	00	0 (	<b>o</b> o	0	0	0	2	•	0	•	<b>a</b>	,		00	0		00	0 0	0	0	0	0	0 (	0 0	0	0 (	0	0	00	00	00
5 2 2	0	00	00	00	0	0	00	7	^	0	- 1				1	0		<b>o</b> c	0	0	0	9	0	0 0	0	0	9 0	00	0	00	00	0 0
151	0	00	0 0	00	0	0	0	7	,	0	. '		•	•	1	C	,	<b>o</b> c	00	0	0	•	0	0 0	0 0	0	9 0	0	0 0	00	00	0 0
DY=75K	TIZIO T2-25 DO YOU MORK WITH MALF SILVERED (928 REFLECTIVE)	11211 12-24 DO YOU WORK MITH MELICAL PLASHTUBES	12-20 DO TOU WORK WITH	200	12-31 DO YOU WORK MITH	12-32 DO YOU WORK WITH	12-19 DO TOU BORK BITT MEDDITION IN STANSA	NOON NI	TIZZI TA-02 DO YOU INSPECT DAST OR HAST	13-03 DO TOU	13-04 00 400	TIZZS THICK DO TOU TROUBLESTED DEST OF REST	CIRCUITS	MALON ASSEMBLIES ON CALTS		TI228 TO-09 DO TOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME	THE VARIOUS		T3-12 DO YOU PERFORM TASKS ON	T3-13 DO YOU PERFORM TASKS	DO TOU PERFORM INSKS	TASKS	U1-02 DO YOU USE OR REFER TO	CITATO DI COL DE DE REFER TO PROGRAMS	UI-05 DO YOU USE OR REFER TO	UI-DE DO YOU USE OR REFER TO	350 004 00	U1-09 DO YOU USE OR REFER TO	U1243 U1-10 DO YOU USE OR REFER TO ADORESS WORDS	UI-12 DO YOU USE OF REFER TO	CINKE ULTIN DO YOU USE OR RETER TO INTORNATION YORKS	UI-IS DO YOU PERFORM TASKS ON

PCT MBRS RESPONDING 17ES! BY SELECTED GRPS

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										DB AND POWER	RATIOS			
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181	0	0	0	1	1	1	93		4.7		29		0	
DY-TSK	UIZ44 UI-16 DO YOU PERFORM TASKS ON INPUT DEVICES	11250 ULLIY DO YOU PERFORM TASKS ON STORAGE DEVICES	LIZEL UT-IN DO TOU PERFORM TASKS ON ARITHMETIC SECTIONS	JIZSZ UI-IT DO YOU PERFORM TASKS ON CONTROL SECTIONS	1253 U1-20 DO TOU PERFORM TASKS ON OUTPUT DEVICES	JISSA CI-21 DO YOU PERFORM TASKS ON POWER SUPPLIES	JISSS UZ-GI DO YOU USE DECIBELS TO EXPRESS AMPLIFICATION AND	ATTENDATION	UIZSE UZ-02 DO YOU USE LOGARITHMS TO COMPUTE OUTPUT POWER IN	06.01861.5	U1257 U2-03 DO YOU USE LOGARITHMS TO COMPUTE ATTENUATION IN	DECIBELS	CIRSO UZ-D4 DURNY TASK TO IDENTIFY INCURBENTS BED PERFORMED	NO TASES

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AIR FORCE OCCUPATIONAL MEASUREMENT CENTER LACKLAND A--ETC F/G 5/9 AIRBORNE EARLY WARNING RADAR SPECIALIST, AFSC 32852.(U) SEP 77 T J O'CONNOR, W A TAMASHUNAS

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This specialty has the following functions:

Inspects, repairs, removes, replaces, modified, and maintains airborne warning and control radar and IFF systems and support equipment. Performs scheduled maintenance on airborne warning and control radar and IFF equipment. Performs unscheduled maintenance on airborne warning and control radar and IFF equipment. Maintains support equipment. Maintains inspection and maintenance records. Supervises airborne warning and control radar maintenance personnel.

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